SUPERVISOR VS

User manual 5.0 version

Remote video reception and management software

ENGLISH

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1 Introduction

1.1 Contents of the manual

This manual contains detailed information about installation, configuration and use of the reception software Supervisor VS to carry out the supervision and remote video management of any building or business establishment that they have installed VX, PECO and POS units with a suitable version.

Version Compatibility

The reception software Supervisor VS 5.0 is compatible with:

- VX 4.0 units.
- VS-DVR, Peco and VX 3.0, except by the change identity and passwords functionality, and with the VS-TV virtual matrix 1.0.
- VS-DVR 2.0 units although the compatibility is limited to the basic operation.

1.2 Software Licence

Supervisor VS is an application protected by a software licence

Each Supervisor VS needs a *"Licence Number*" that is supplied by the distributor. There is the possibility of trying the application for 30 days with an evaluation license.

For detailed information please consult the installation chapter.

2 Software Installation

This chapter specifies the minimum hardware requirements and explains step by step the installation process for starting Supervisor VS for the first time.

2.1 Software and hardware minimum requirements

Supervisor VS application can be installed on a PC or laptop having the following prerequisites:

- Windows 7 operative system.
- Windows Vista operative system.

  Note: Supervisor VS in sever-client mode is not compatible with Windows Vista Home.
- Windows XP operative system with Windows XP Service Pack 2.
- .NETFramework V 3.5 (included in the CD)

In case of not having any of the previous applications Supervisor VS will show a warning message and an Internet address to obtain it. Once the software pre-requisites are checked, the Pc or laptop must have the following minimum configuration:

- SVGA graphic board 1024x768.
- Mouse, keyboard and colour monitor.
- Minimum memory 512 MB, recommended 1GB for Windows XP, for Windows Vista and Windows 7.
- 50 MB Free space for application files and 4 GB for the data base.
- Ethernet LAN board (TCP/IP)

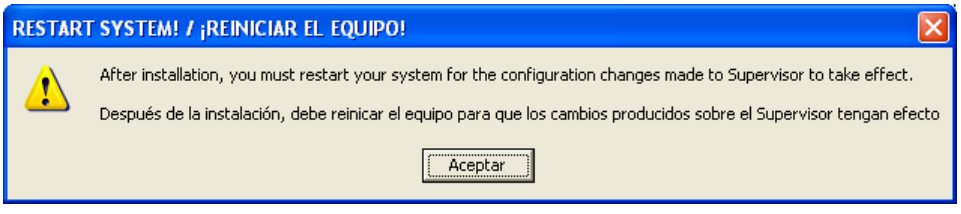
2.2 Installation process

Attention: The application must be installed from an operative system administrator user, being able to be used later from other users.

The complete installation of Supervisor VS software involves the following steps:

Insert the Supervisor VS CD in the CD-ROM drive. In the following menu select the Supervisor VS link to start the automatic installation process.

It will appear a warning message to restart the unit when the installations ends, only for units installations with Windows Vista and Windows 7.


RESTART SYSTEM! / ¡REINICIAR EL EQUIPO!
After installation, you must restart your system for the configuration changes made to Supervisor to take effect.
Después de la instalación, debe reinicar el equipo para que los cambios producidos sobre el Supervisor tengan efecto
Aceptar

The installation Supervisor VS assistant starts. Click on the *"Next"* button, a new window will appear where the installation type can be selected.

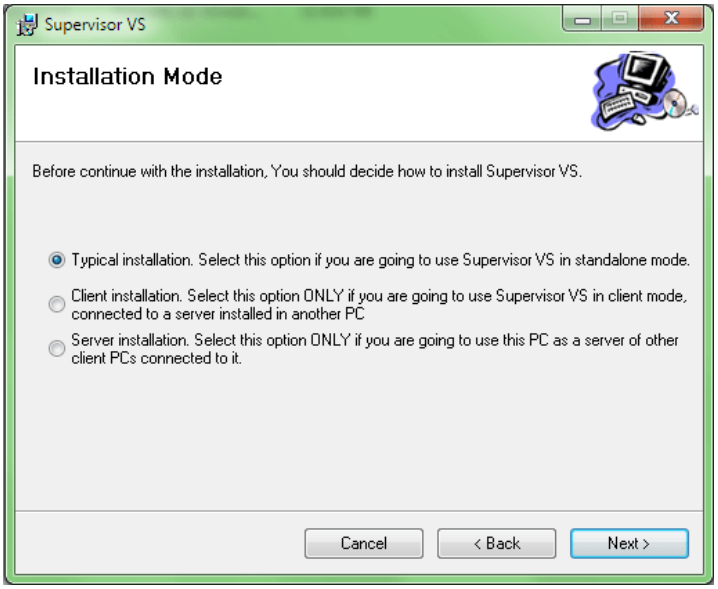

Supervisor VS
Installation Mode
Before continue with the installation, You should decide how to install Supervisor VS.
Typical installation. Select this option if you are going to use Supervisor VS in standalone mode.
Client installation. Select this option ONLY if you are going to use Supervisor VS in client mode, connected to a server installed in another PC
Server installation. Select this option ONLY if you are going to use this PC as a server of other client PCs connected to it.
Cancel
< Back
Next >

Fig. 1 – Selection of the Installation Mode

Select the *"Typical Installation"* to use the Supervisor in a standalone mode (default option). In this case the application runs in a unique PC and the database is not shared with other working places.

Select the option Client Installation to use the Supervisor only as a client of a Supervisor VS server and the last one to install the Supervisor VS as a server.

If you are interested in using multiple Supervisor-Client places connected simultaneously by network to a shared database managed by a Supervisor-Server, please consult the technical note *"Installation of multiple network Supervisors"*

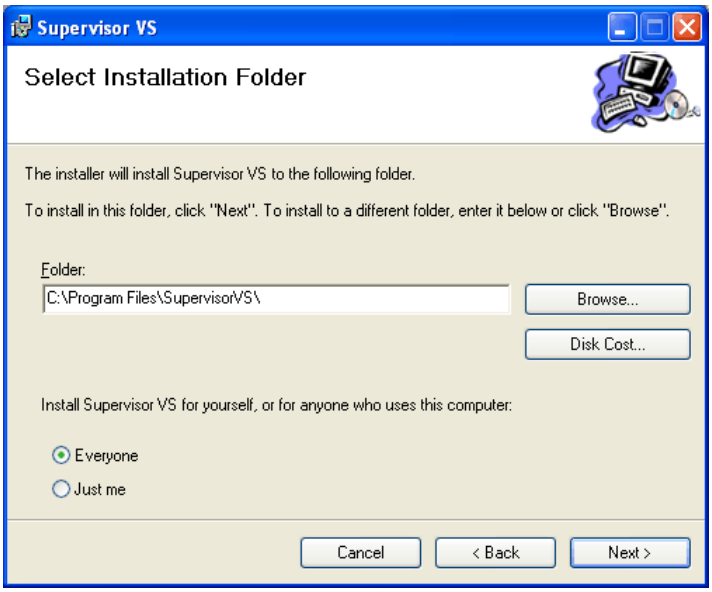

Supervisor VS
Select Installation Folder
The installer will install Supervisor VS to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\SupervisorVS\
Browse...
Disk Cost...
Install Supervisor VS for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

Fig. 2 – Selecting the installation folder.

A new window will appear where the installation folder can be selected. By default the installation folder is "*C:\Program Files\ Supervisor Vs*" to use this folder click on *"Next"*. To change the folder location click in *"Browse"*. Select if the application will be available for all the users or only for the user carrying out the installation.

Before the installation process has finished, the licence number is requested. This number appears in the application box.

Note: For detailed information about the licence and its activation please consult the Licence activation section of this manual.

Once the number has been introduced the application begins to copy the files to the PC. When finished, the message *"Installation complete"* and a new desktop icon will appear.

2.3 Running the Supervisor VS for the first time

To execute the application, make double click on the desktop icon or select the folder: *Start\Programs\Supervisor VS*.

Supervisor VS starts with a screen where you have to select the user and introduce the password. Initially there isn't any password defined (leave the field blank to enter the first time)

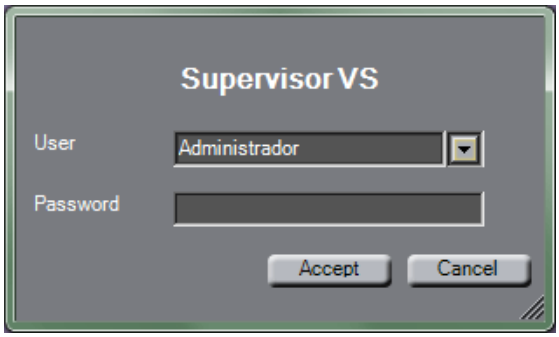


Fig. 3 – Start-up screen

There are five different type of users none of them have assigned a default password. Only the *Administrator* user can manage the users and its permissions from the Configuration screen, accessible from the menu bar.

2.4 Licence activation

Supervisor VS is an application protected by a software licence, except by the Freeware mode that allows the use of the application for one unit without limitations.

Each Supervisor VS needs a "*Licence Number"* that is supplied by the distributor. This licence has to be activated before 30 days through an activation code supplied by the manufacturer. Each licence is linked to the unit hardware where the application is installed, not being possible to be used in other units.

The Administrator user can access the licence management window any time from the option *Configuration / Licence Management.*

If passed 30 days the licence has not been activated, you have the option to turn it into a Freeware licence that allows the use of the Supervisor VS only for one unit without limitations.

2.4.1 Licence number

This window appears automatically following the application's installation; please introduce the licence number in the corresponding window or choose the Freeware option to use the Supervisor VS without licence (only one unit allowed).

From this moment there are 30 days to activate the application, in which the *"Licence and Activation"* window will appear on the application starting showing the remaining time for the activation. If the Supervisor VS is not activated during this period, it will stop working, although the licence window will appear giving the option to turn it into a Freeware version.

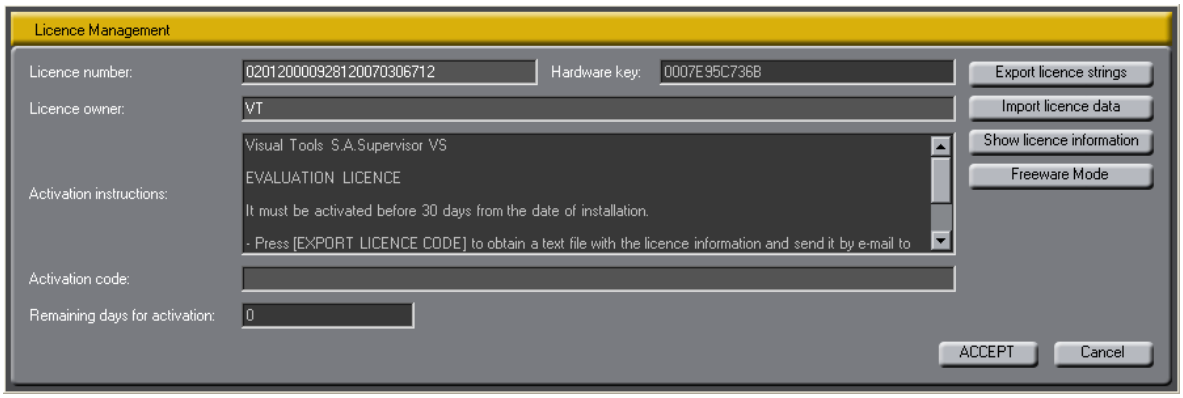


Fig. 4 – Licence management

2.4.2 Licence activation

To obtain the Activation Code you must provide to the distributor the licence data: Licence Number, Hardware Key and Licence owner. These data have to be sent by mail to the distributor, who supplies the Activation Code once get it from the manufacturer. Select the option "*Export licence"* there will be created a *code* and a text file containing the requested information.

The licence must be activated by the *Administrator* user, the licence owner and the activation code must be introduced exactly as the distributor has showed you. If you have received a text file with the data, use the *Import Licence Data* to recover the information. When the application starts with another user without been activated it appears an error message.

2.4.3 Licence data

Depending on the licence you have bought, you will have right to declare a determined number of units. To check this information, click in the button "See licence data". The value "0" in the "number of units" field corresponds to the unlimited licence. The Freeware licence only allows one unit.

Note: the groups defined doesn't count for the number of units of the licence

3 Functionality

This section describes the characteristics and how to use the Supervisor VS, including a description of the main functions, architecture and possible usage scenario.

3.1 Functionality Description

The reception software Supervisor VS is a professional tool for digital video reception. Designed for vigilance and remote management of multiple installations with recorder-transmitter units of the VX, PECO and POS.

Designed to satisfy the vigilance needs of the professional user, Supervisor VS has the following features:

- Access control to the application functionality by a password system with different user levels and permissions. Creation of multiple users based on groups designed by default.
- Unit distribution for management based on user and group ownership.
- Safe connection to the units can configure up to three types of passwords.
- Unit data base with tools to optimize the searching and immediate connection to any unit. Possibility of creation of groups to gather in a virtual unit multiple installations.
- Automatic management of dynamic IP system in remote units.
- Automatic signalling of the unit status with detailed information about the hardware, installed devices, checking of the recording and current unit configuration.
- Visualization of the camera state, digital inputs and possibility to operate the relay outputs of the connected unit.
- Detection, management and automatic use of the available upgrades for the units. Manage upgrade screen, control of pending and ongoing upgrades.
- Receptions of high quality live video of one or several cameras simultaneously with remote dome control (PTZ cameras) of multiple manufacturers and preset programming.
- Live video full screen, choice of multi-quads, video recording, snapshots and camera deactivation.
- Access to the recorded video sequences of the remote units with easy searching tools, just us motion detection and mini-event viewers. Search information in POS systems.
- Recording video filter to play back and download only event video.
- Quad recording video play back.
- Recorded video security through a video signature, both downloaded video and exported video.
- Possibility of changing the video resolution to increase the play back speed and reduce the time to export video.
- Video download management screen, to carry on and manage multiple downloads simultaneously.
- Bidirectional audio communication with the units from the Supervisor VS.
- Capture of photos and local hard disk recording of live or recorded video from the remote units. Tools to process and manage events and images, generation of reports, impression, exportation and watermarking.

- Local video recording, normal or automatic with time selection, at maximum speed allowed by the unit.
- External video player VPlayer, compatible with all the videos recorded and exported from the Supervisor, accessible from eventlog and from the Supervisor VS window group.
- Receipt, recognition and file of alarms proceeding from the remote units with associated images, VAV: visual alarm verification. Tools to make easy its automatic visualization in different ways, just as external monitors or in the operator workstation
- Possibility to control multiple virtual matrix, VS-TV units from the Supervisor VS which can present video of different cameras from different remote units simultaneously in each monitor.
- Creation of scheduled unit patrols. Two generic patrols are included, one for the automatic status checking and one for the video downloading. The scheduled patrols can check the cameras, recordings, unit configuration and incrementally download the eventlog. Sending of patrol report by e-mail.
- Recordings of the events from the working sessions, access, connections and fail connections, changes in the remote unit digital inputs, data base input and output data, unit configurations, photos and live video/recorded video recordings, photo and video export, VAV.
- Event viewer with quick playback, step by step and export of part of a sequence or the complete sequence.
- Configuration of the remote units and video remote export in local devices.
- Storage of at least two configurations for each unit, creation of templates from existing configurations, configuration and templates sending.
- Message window to display important information for the user as new versions information, warnings, etc.
- Improved interface, all the application Windows can be resized, there are independent windows with size and movement controls for different functionalities, Supervisor VS configuration, upgrades management, full screen, etc..

3.2 Functionality Architecture

See the diagram in the next page:

The VS Supervisor reception software is an application that can establish a remote connection via TCP/IP (LAN,WAN, ADSL) with multiple VX, PECO and POS recorder-transmitters units and receive the video images from the CCTV cameras of the sites where they are installed. The connection can be established by the Supervisor VS or in case of alarm by the remote unit.

The supervisor can be installed in an independent mode with its own not-shared data base, this is the (option by default) or they can be installed in a local network supervising simultaneously multiple units as if they were just one, or remotely, supervising multiple units located in different places.

In case of large installations there can be multiple workstations in the control centre sharing all the system information. In this case one of them should be defined as a Supervisor in server mode and the others as Supervisors in client mode.

To make easy the monitoring of large amount of cameras, there are virtual matrixes available (VS-TV units), which can request the video from the IP network (multiple cameras from different units) and display it in PAL or VGA monitors. These virtual matrixes are easily commanded from the Supervisor VS user screen.

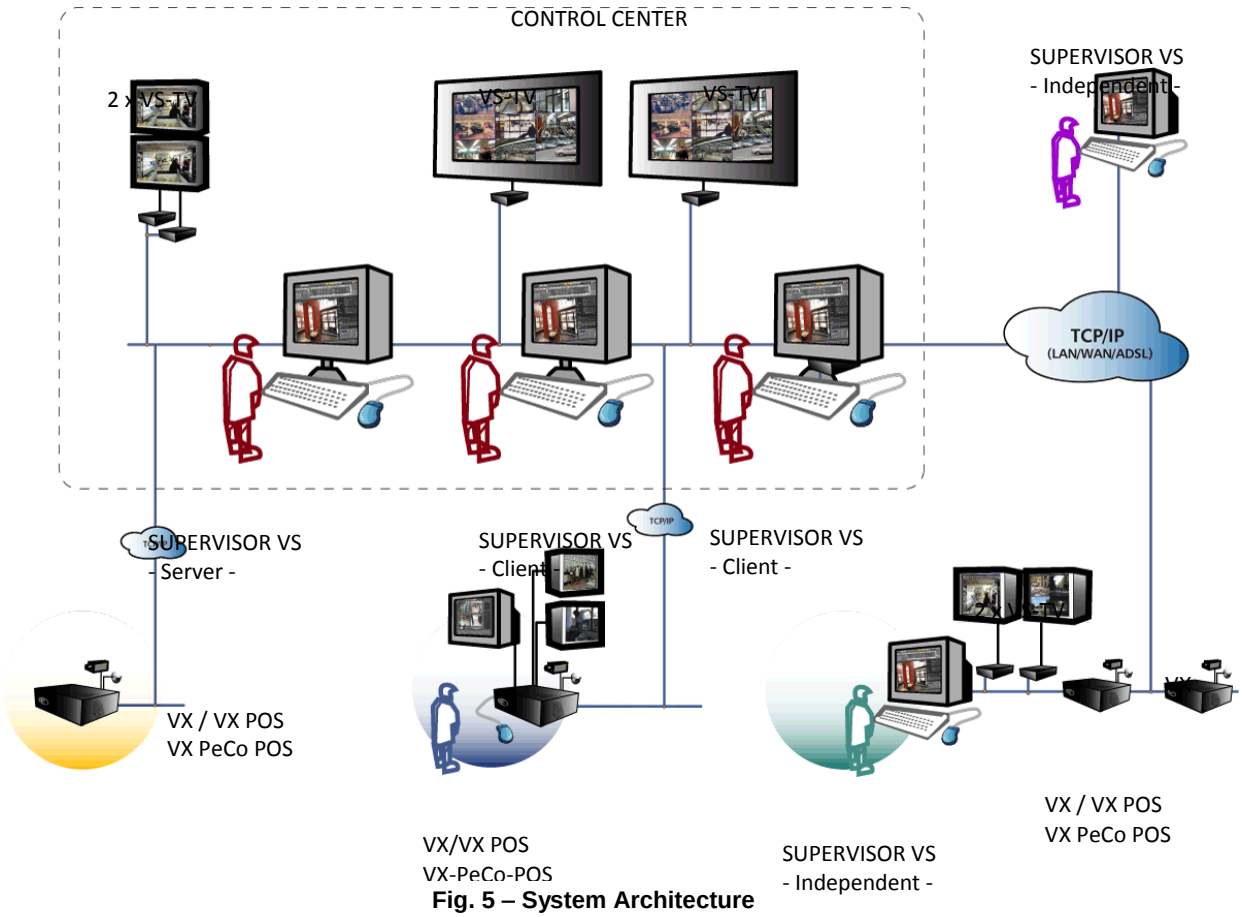


Fig. 5 – System Architecture

4 Remote video software Supervisor VS

The Supervisor VS supplies total control over a group of installations that generates detailed information of their status, easy to see and analyze.

You can get this control through different management levels, from the basic one, operation, by the units, live video and recorded video, to a higher level by the eventlog and patrols. We can define three types of basic scenarios depending on the user and management levels.

- **Operation:** Units, Live video and Recorded video. This scenario is mainly used by the operator, advanced operator and inspector users. Is the basic management level to easily control and maintain the data base.
- **Management**: Eventlog, TV monitors, and Patrols. In this level you can carry out an advanced data base management through the control of the total amount of the application events, the visualization of several remote units in the virtual matrix VS-TV and the information supplied by the generic patrols and scheduled patrols.
- **Administration**: Unit upgrade management, access to the log files where all the outstanding unit information for the user is reflected, units and application configuration, application window movement. Only accessible to the administrator users, this is the highest management level.

4.1 User permission and access

The application is protected by a system access according to the user level. When the application starts for the first time it does so with the *Administrator* user and without password, it's advisable to change the password as a safety measure.

Initially there are five types of users, Administrator, Supervisor, Inspector, Advanced Operator and Operator. Each user belongs to a standard group that have the same name as them, the permissions for each user are assigned in these groups.

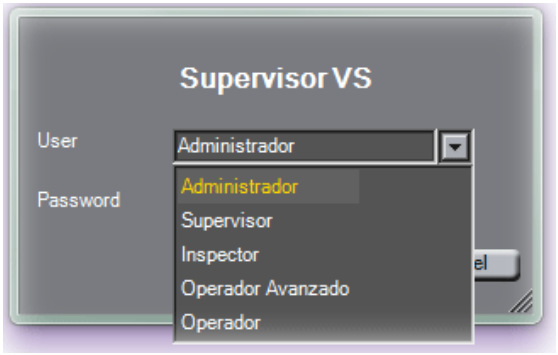


Fig. 6 – Users

.- Administrator: these group users have access to all the application functions. There are the only users with permissions to create new groups and users.

.- Supervisor: these group users have access to all the application functions except by the upgrades, linking of unit installation maps, units configuration, and application configuration. This is the common user of the application.

.- Inspector: these group users have access only to the recorded video functions, (recorded video download, export and reports). It defines a type of specialized user who adjusts to particular cases as for example; provide access to the police to recorded video.

.- Advanced operator: this profile is for users that only have access to live video and recorded video.

.- Operator: it can only access to live video, this is the type of user for the units surveillance.

The management of users and permissions is carried out from the Configuration window, accessible from the button on the menu bar.

It can be created several users, bearing in mind that each one can only belongs to a group. Only the administrator users have the ability to create new groups and users. The administrator user has the possibility to deactivate users when there are no needed, the option is in the user window Add / Edit, by default all there are active.

4.2 User interface components layout

The Supervisor VS interface is a very intuitive graphic application from which is very simple to control the CCTV system of any remote installation. From the first screen you will have control over the recorder-transmitter units of any installation under your vigilance.

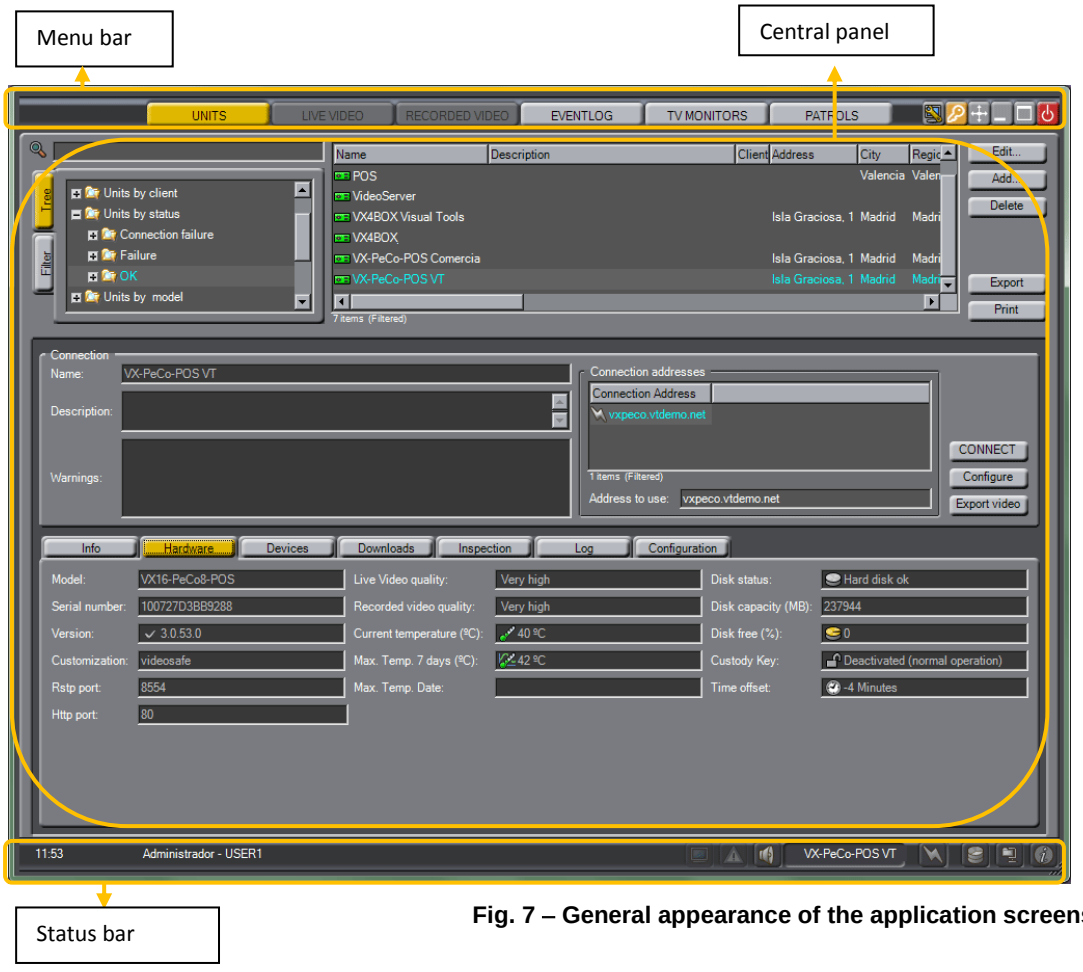


Fig. 7 – General appearance of the application screens

You can resize all the application windows and the main ones as full screen, configuration, download management, works independently from the main window and have scroll buttons, minimize, maximize and close.

These windows operate separately, so you can play recording video and live video simultaneously, manage upgrades, video download and follow working with the main window.

When you click with the right mouse button over the Supervisor icons on the Windows taskbar it opens a popup menu with minimize, maximize etc, commands.

Each screen offers different functionalities but they share a visible structure divided into three main parts.

Menu bar

Always in the upper part of the screen, provides access to the different application windows: *Live video, Recorded video, Event log, TV Monitors* (optional) and patrols.

Includes buttons for configuration, close the session, moves the main window, minimizes it, maximize and closes it.

Central panel

This area is reserved for management tasks: remote unit search, connection, visualize live or recorded video, event log management. It changes alike when the application screen changes.

Status bar

Always visible in the lower part of the screen, it displays the basic status of the application.

On the left hand side appears the current time, active user information: type of user and name.

In the central part the messages of the application are displayed, actions going on, etc. then the alarm icons.

On the right lower part appears the name of the unit or the group selected in this moment and the connection icon: when clicking in this icon the Supervisor connects or disconnect from the unit depending on the state it was.

Finally, and only for the Administrator user, it shows the Eventlog status icon, the status of the units upgrades and the user information icon , this icon opens a window that displays information for the users as new versions.

5 Units

The screen to manage the units and installations is the one visible by default when the application starts. In this screen all the data base units appear .You can:

- Search units and groups through filters (trees or programmable). Order and visualize data from any remote unit or group, through the unit status signalling.
- Edit, delete or add as many records as needed: export and print information, from units, groups or from the whole data base.
- Connect to units / group's configuration, video export and software upgrade.
- You can get detailed information from the units, as last connection, hardware data, unit devices; video downloads, recording inspection, logs and unit configuration.
- General information and group devices information.

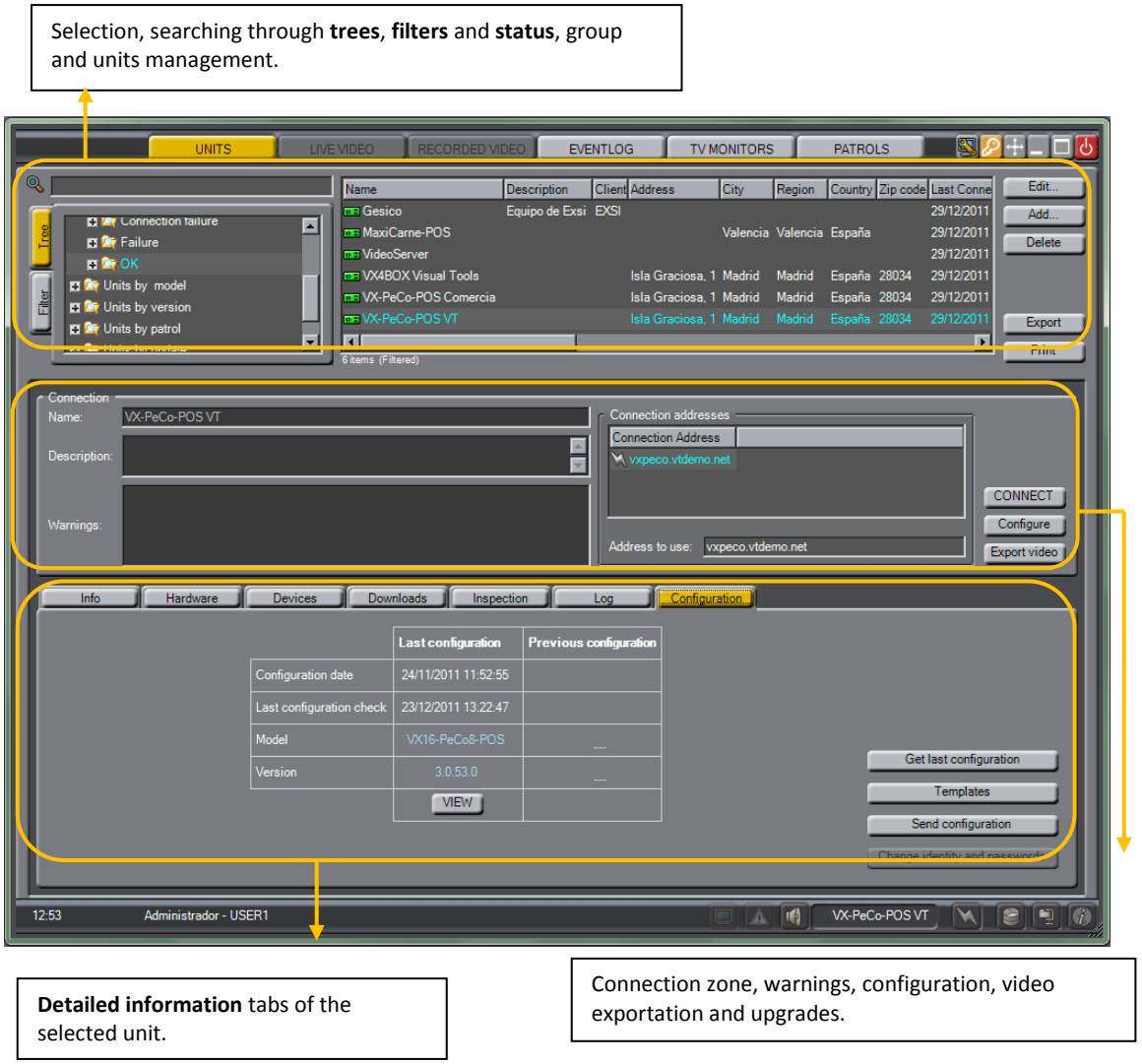


Fig. 8 – Selection and configuration unit screen

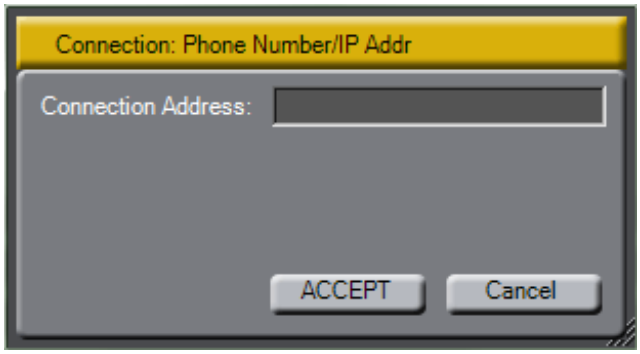
5.1 Add a unit

When you install the Supervisor, initially the data base has a demo unit, through an example we can see how to add a unit quick and easy.

Click in the Add button, select Unit and click in the ACCEPT button.

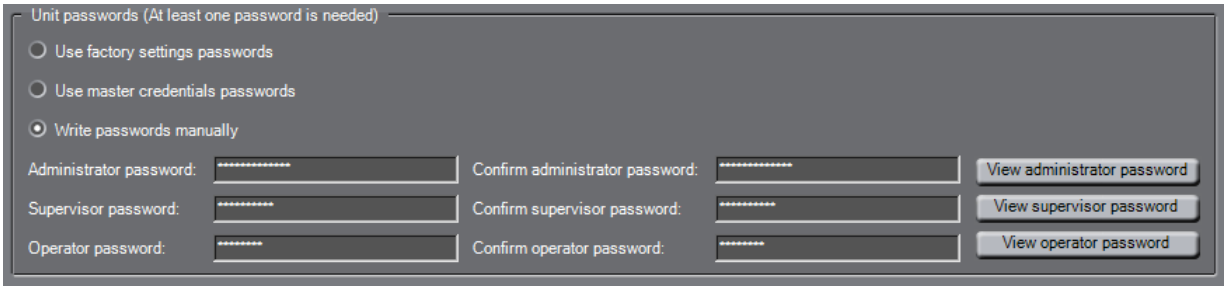
1.- Enter the unit name

2. - The next step is to add a connection address, click in the add button, the name you must enter is the connection name and has no relationship with the unit name. The IP addresses can be used as standard format or dynamic IP format.



3. – Then enter the connection password, (remember that this password is the one configured in the unit and it cannot be changed from here). There are three options available and one is required, the users are associated to the passwords.

- Use the factory settings passwords.
- Use master credentials passwords (please see the configuration chapter).
- Write the passwords manually. It is possible to connect to a remote unit with one of the three users available. The choice of the user's type is made based on the group that owns the user's Supervisor, because the groups have connection rights with the units. By default all the groups has rights to connect both administrator and supervisor.



4.- Hide the unit in the unit lists. When you select this option the unit doesn't appear in the general list, if the unit belongs to a group it will be being visible but it doesn't allow connections. Initially only the administrator users can see the hidden units.

5.– Add the client name and comments or instructions (instructions field only editable by the administrator user) if necessary.

6. – Click in the ACCEPT button to ends the process.

5.2 Data base: unit selection and management

To manage the data base there are some management tools available, "*Add"*, "*Edit"* and "*Delete"*, placed in the upper part of the screen (only accessible to the Administrator user).

The application starts with a data base with a demo unit, to begin including information click in the "*Add"* button, in the next screen it will appear which type of installation can be chosen, unit or group.

Add a unit

To add a unit you must fill the requested data bearing in mind that the user and password requested corresponds to the recording unit.

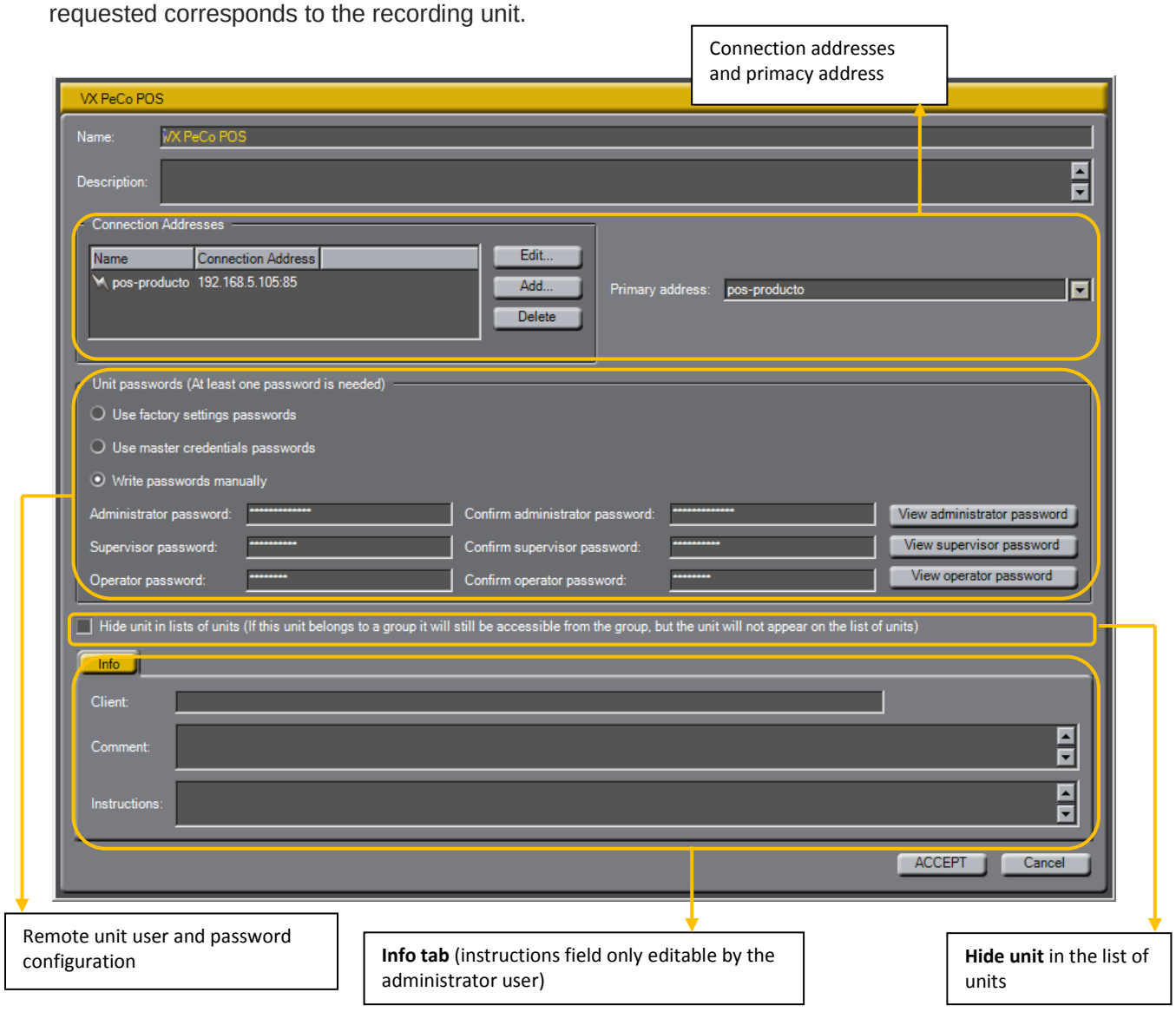


Fig. 9 – Add a unit

Add a group

The Supervisor application allows to group multiple units to operate with them -connection, access to live and recorded video- as if they were only a unit. This way a large installation with multiple recording VS units can be remotely managed as if it was for example a unique unit with 64 cameras.

To add a unit to a group you can apply filters to select them and modify the unit sequence in the selected unit list.

Once the units are selected don't forget to enter in the devices tab to select which cameras, inputs and outputs you want to include in the group. Please note that you can display up to16 cameras simultaneously in live video and up to 40 cameras in full screen.

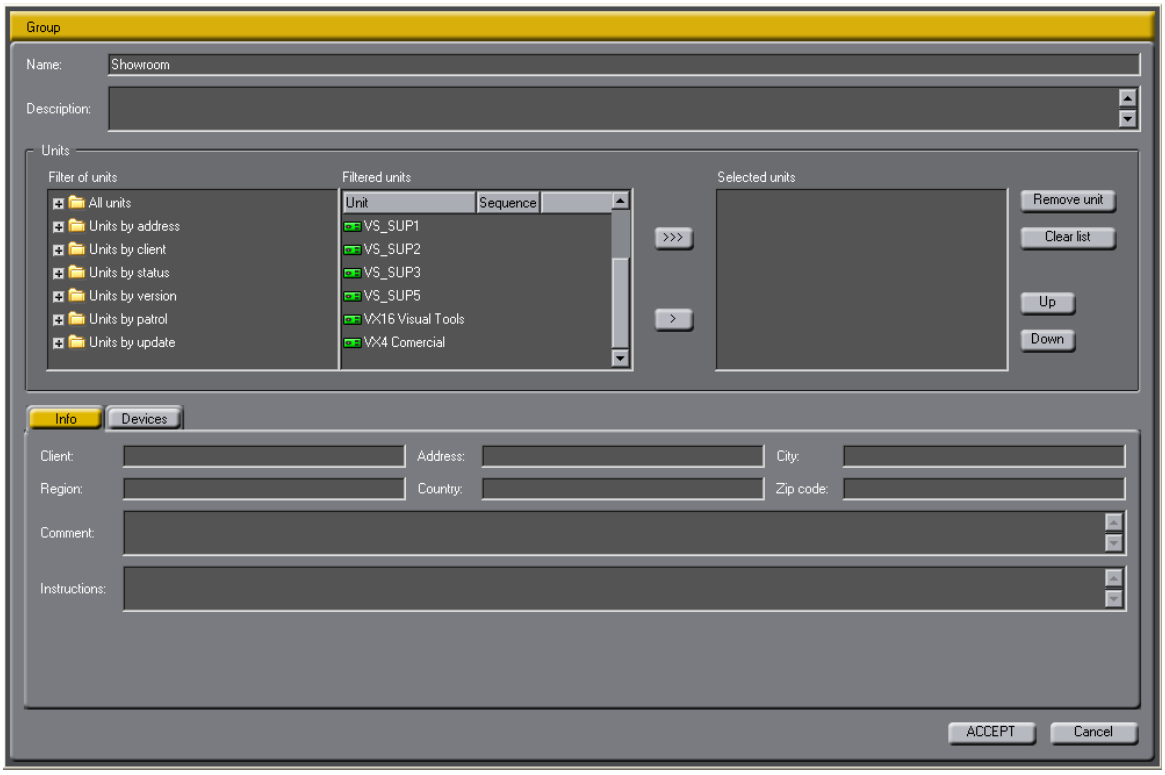


Fig. 10 – Add a group

Export and print the data base

Inside the management tools, there are two more options that allow you to work with the data base, *Export* and *Print*.

The first option exports the data base list, filtered or complete as well as the selected unit data, in a CSV format. This file can be imported from other applications as Microsoft Excel.

The second option prints the list in the order of rows established or the resulting list of applying a filter.

Search tools: filters and trees

Quick search

It's an editable search field where you can introduce a text and search it all over the data base. The search window is placed over the tree it doesn't discriminate between uppercase and lowercase.

Tree

The tree are automatic filters based on the units features that starts on the root node *"All the units and groups"* selected by default, where each selection adds a condition to the filter that restricts the unit list.

Filter

The filter tab can reduce the installation list through the direct conditions specification. It's possible to start from an automatic filter, selecting the automatic filter from which you want to start in the Tree tab, once selected change to the Filter tab.

The filter contains a list of conditions. When a unit or group appears in the selection zone, this means that all the conditions have been carried out simultaneously.

Besides this tools when you click with the right button mouse in the units list a pull-down menu will be open, in this menu there are several options for a quick filtering depending on the data of the chosen unit.

Graphic status

To make easy the identification of the units that requires your attention, the unit fails and anomalies are summarized in the unit icon, showing the colour of the warning with highest significance. The groups are signalled with the colour of the unit with highest failure.

/ (red) Connection failure.

/ (red) Hard disk failure or video signal loss in any camera.

/ (yellow) Hard disk and recording anomalies, custody key activated, maximum temperature in the last 7 days alarm, time offset, and hard disk full (by default is not marked as anomaly, it can be changed in the configuration window).

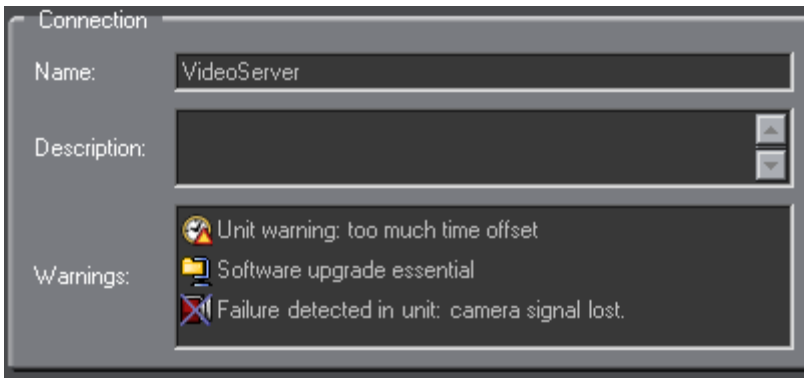
/ (green) A connection has been made recently and no anomaly has been registered.

(grey) Without recent data, we have never connected with the unit or there has passed more than 30 days from the last valid connection (this parameter can be changed in the configuration window).

5.3 Connection and configuration tools

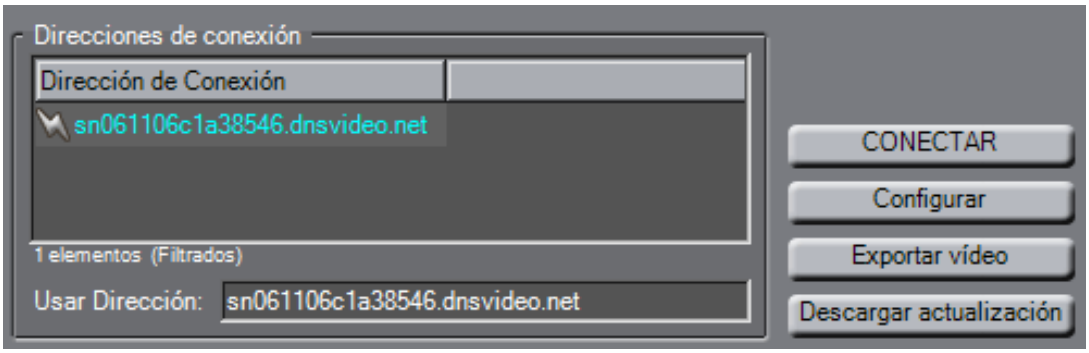
Connection

Depending on the user, the remote connection to a unit allows him to watch live video from any of the cameras installed, check the current digital inputs and outputs status, watch recorded video and in the case of the administrator user, access to the unit configuration and upgrade its software.



The warning section provides current information about the unit status, showing as a summary the pending failure warnings or anomalies.

For connecting to the chosen unit/group click on the Connect button or in the status bar icon or double-click on the installation name, the field “Address to use” can be used to change the connection address without changing the database.



The quickest way of knowing if there is an active connection with a unit on a certain moment is to notice if the connection icon is active.

You will be able to disconnect from the remote unit at any time just clicking over this icon visible in all the screens, or clicking in the *“Disconnect”* button only visible from the Units screen.

Unit Configuration

The configuration button gain access to the remote configuration, both when is connected as when is not, it’s only available for the Administrator user.

The Supervisor VS connects to the selected unit and it access to the remote unit configuration options. You can change the general data, network configuration, cameras configuration, timetables, events definition and user profiles. Please consult the corresponding unit manual to know in detail its configuration options.

Video export

This option is available for all the users except by the operator user. It allows you to export video from the remote unit by opening the export window.

Download upgrade / Software upgrading

This option offers the possibility to download the corresponding unit upgrades and if you have already the file, to upgrade the software. It is available only for the administrator user.

5.4 Detailed information tabs

Under the connection panel it appears in different tabs the detailed information of the selected unit or group for the groups only the Info and Devices tabs are available.

The content of the information tabs, and the unit or group status, is updated providing that the Supervisor is connected manually or through a patrol to a unit or a group. These contents can be consulted in any moment only selecting a unit or group from the data base, without need to connect.

Info

This tab is accessible for all the users except by the instructions field and the link map option only accessible for the administrator user. It shows the information collected from the units or groups allowing you to see its data and to write down information in the comment field. The instructions field is exclusively for the administrator, in this field the administrator can enter general instructions for the unit or the installation. It's possible as well to link an installation map to the unit info.

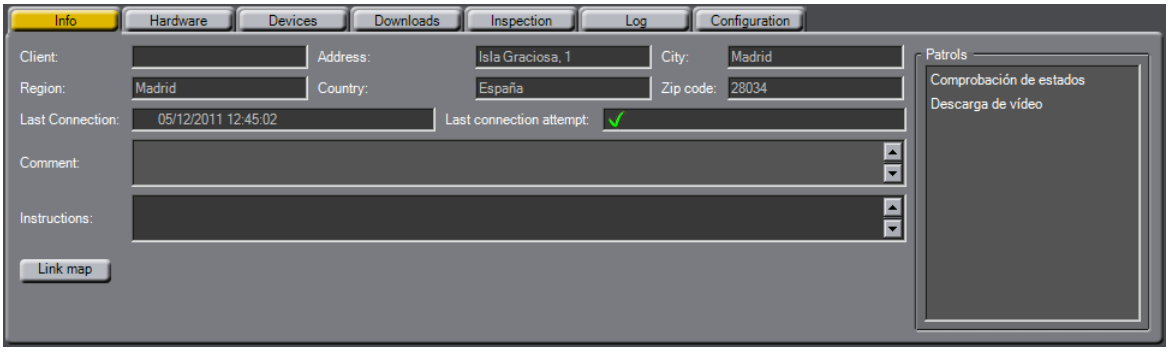


Fig. 11 – Info tab

Hardware

It is accessible for all the users. This tab shows hardware detailed data and related elements from the selected unit.

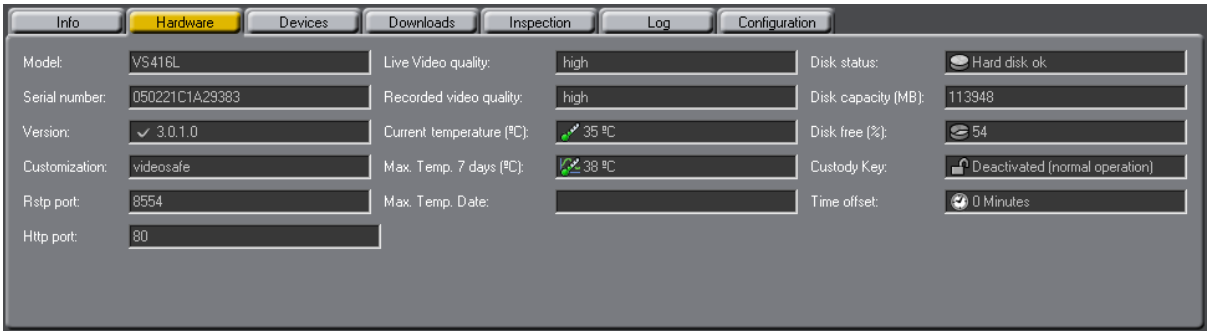


Fig. 12 – Hardware tab

Devices

It is accessible to all the users. This tab shows the name, last camera status, alarm inputs and relay outputs of the remote installation. You must bear in mind when you consult this information without connecting to the unit that the device status displayed corresponds to the last valid connection. When a group is selected the devices are displayed in a list.

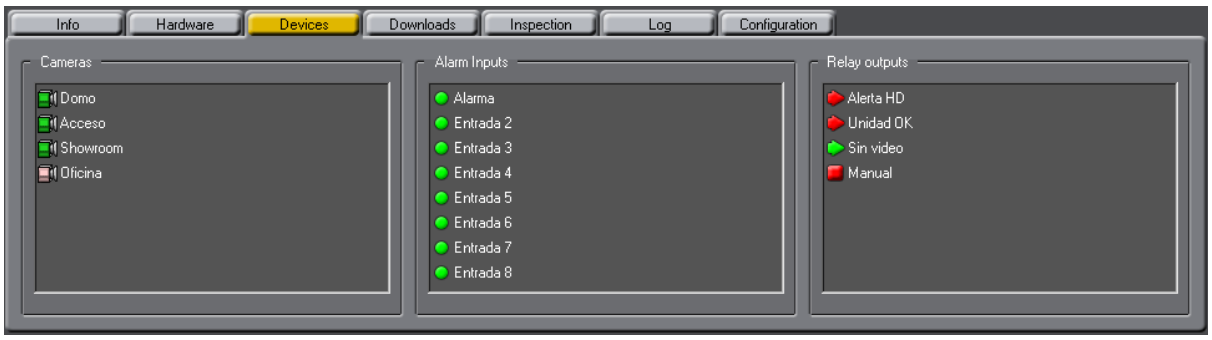


Fig. 13 – Devices tab

Downloads

It is accessible for all the users except by the Operator user. This tab allows you to schedule the video downloads by selecting the cameras and the period. This period can include two days. It is possible to choose between three resolution types, the 640x480 resolution is the common one; the 320x240 resolution creates small files with higher resolution and the 384x288 resolution.

Once the download is scheduled, the video can be obtained it immediately or can be included in the video download generic patrol (for further information please consults the chapter Generic patrols).

Fig. 14 – Downloads tab

When you get now the download, you can control it from the video downloads management window.From this window you can get several downloads simultaneously being able to prioritize, pause or delete pending downloads. This window is accessible as well from the tools tab in the configuration window.

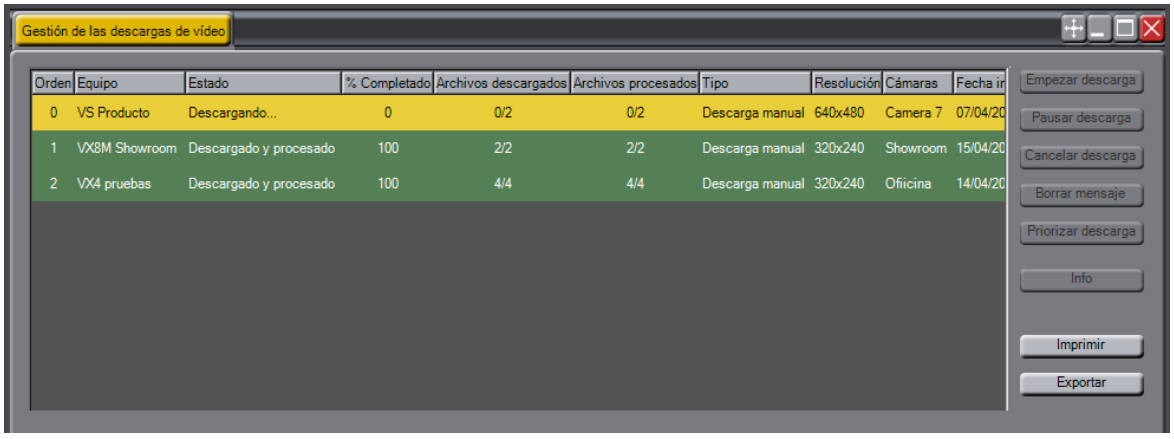


Fig. 15 – Management video downloads

You can know which units has pending video downloads filtering the data base for this concept or in the Patrols window, inside the generic video downloading patrol. The downloaded video appears as an event in the Eventlog window.

Inspection

Fig. 16 – Inspection tab

It is only accessible for the Supervisor and Administrator users. In this tab you can check, export and print camera status and recording information. These data can be obtained by clicking in the *Get Now* button or by defining a scheduled patrol (for further information please consults the chapter Scheduled patrols).

Log

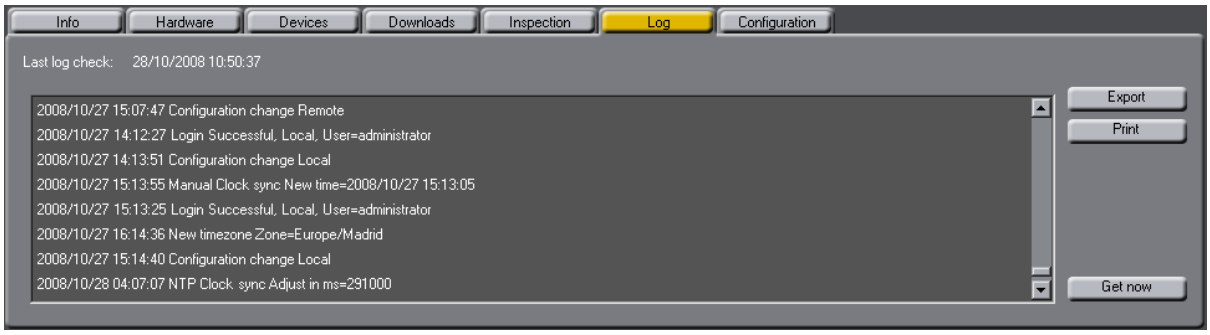


Fig. 17 – Log tab

It is only accessible for the *Administrator* user. In this tab you can get the unit log files. These files are text files that collect outstanding unit information for the user. There are downloaded incrementally, can be printed and exported.

Configuration

It is only accessible for the *Administrator* user. From this section you can manage and create the configuration templates, you can get the last two configurations; send both templates and previous unit configurations and change the identity and unit passwords. For further information please consult the Appendix 3.

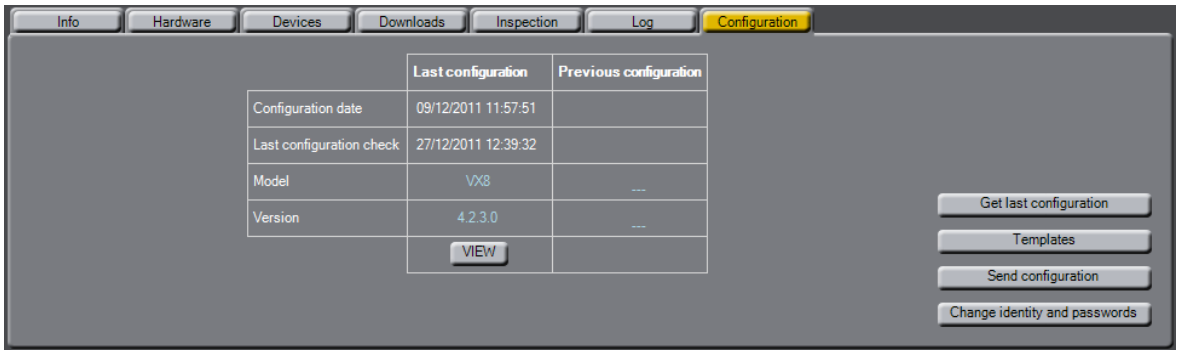


Fig. 18 – Log tab

6 Live video

Live Video screen general functionality

When a connection from a Supervisor VS is established to a remote unit, the live video screen opens automatically. Whenever there is a connection to a remote unit or group, an authorized user can access to the *Live Video* screen, where you could see the image of the selected camera in full screen mode, quad mode visualization of up to 16 cameras at the same time in live video and 40 cameras in full screen, record the video displayed locally in the PC and capture video snapshots or establish bidirectional audio connection with the units.

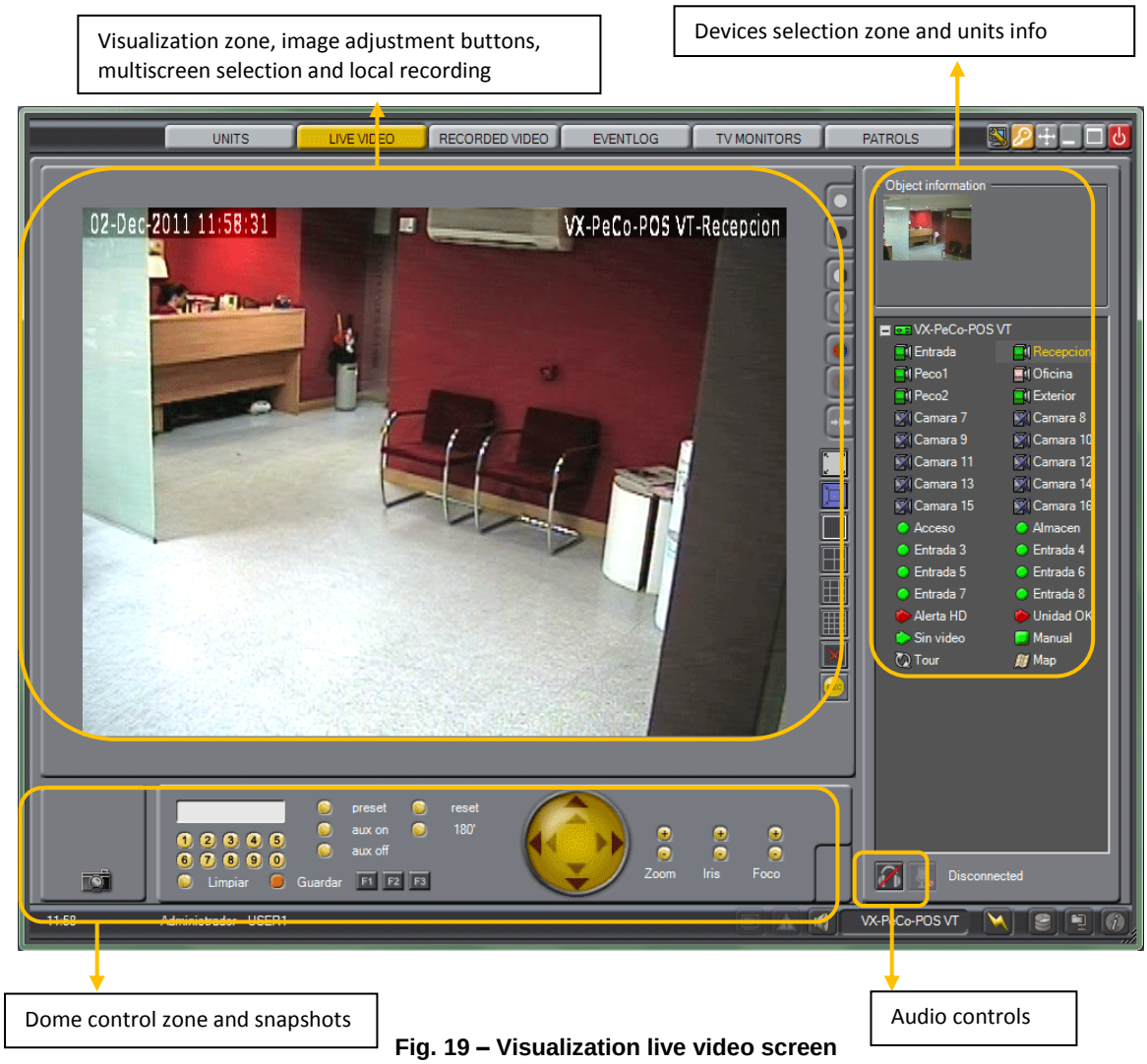
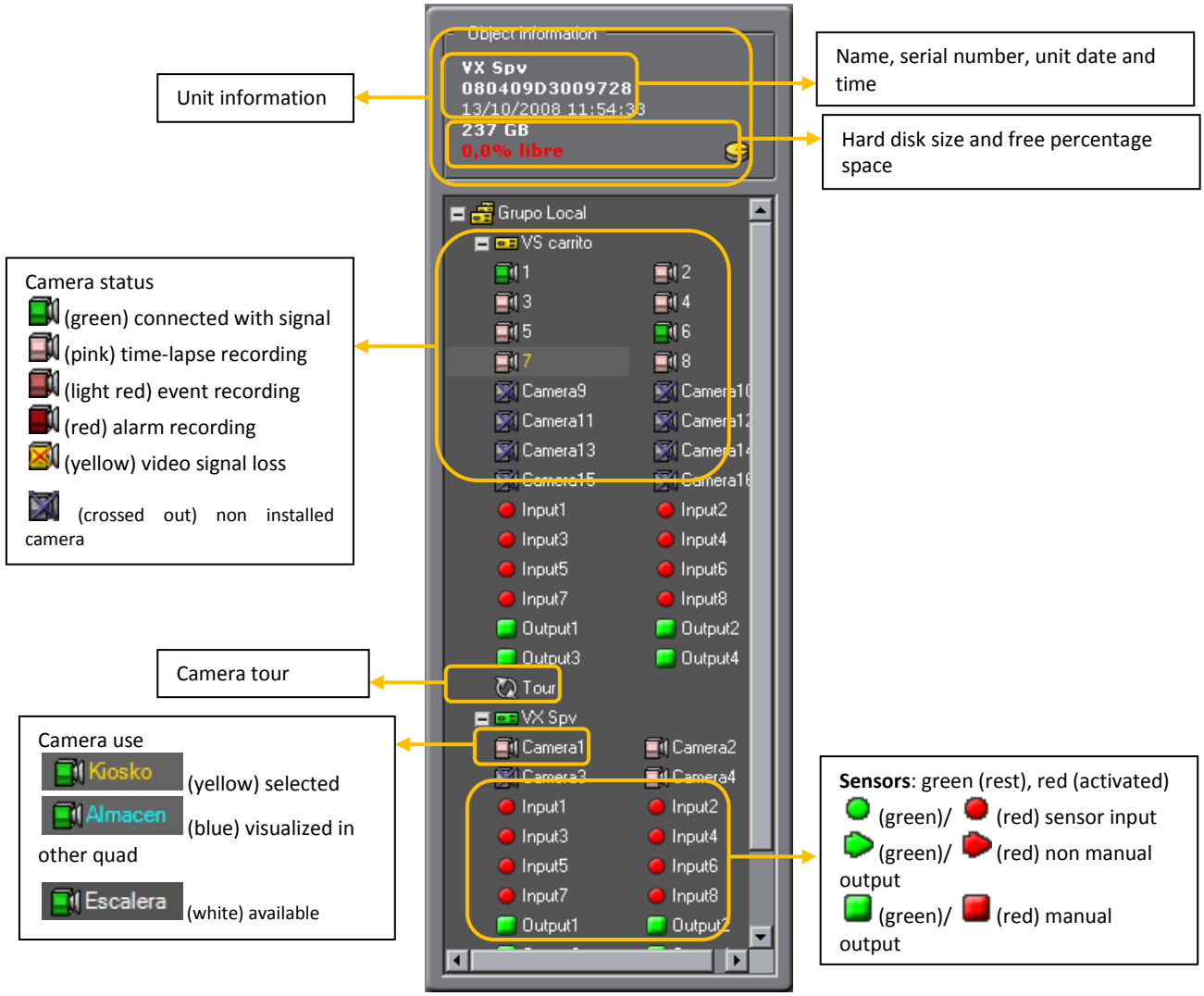


Fig. 19 – Visualization live video screen

The screen consists of a central viewer of 640x480, an information panel containing the unit data or group connected (status, cameras, inputs and outputs) and the necessary image controls for sequence visualization (image adjustments, visualization mode, dome control..) and the audio controls.

6.1 Camera and devices selection

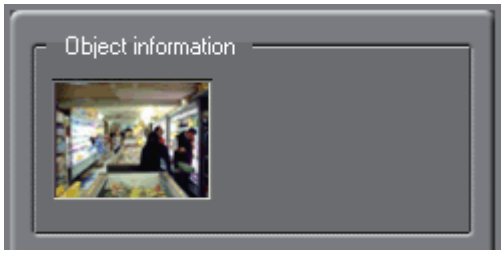


The panel to select cameras and tours is placed at the right side of the screen.

If you have connected to a group, it is generated a tree constituted by as many root nodes as units belongs to the group. Each of these nodes contains the cameras, inputs and outputs pre-selected when the group was created.

When you select the tour icon you can show a multiple camera tour in full screen mode or in quads. The tour is configured in each recording unit.

When a camera is selected or when the mouse pointer passes over other camera, it appears in the window the reference image. Only the Administrator user can capture reference images



6.2 Visualization area

Image adjustment buttons

At the right side of the viewer the user has the controls for the image brightness, contrast and colour adjustments and a button to restore the default values.

The brightness, contrast and colour values are independent for each camera. Select the desired camera and use the adjustment buttons to modify their values. The image changes will appear in the main viewer. The settings made during the connection are stored in the Supervisor VS data base and are maintained in successive connections.

Live video full screen

To switch to full screen mode, click in the full screen button at the right side of the live video screen, it shows the video viewer at the maximum size the monitor may allow, the rest of the auxiliary panels are hidden except by the camera names and video controls. The dome movement is possible only with the OSC.

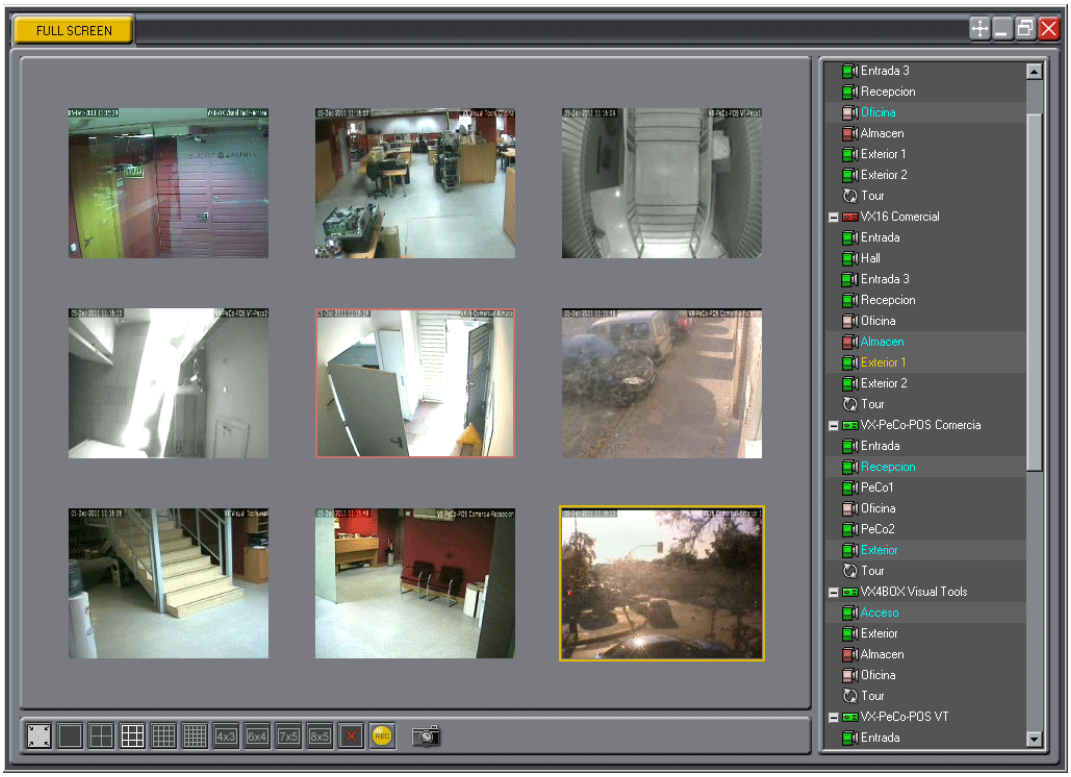


Fig. 20 – Live video full screen

The video controls enable a wide range of quads that fits the monitor; you can also take snapshots, record video and switch off cameras from the selected quad.

To leave the full screen mode, click in window close button or in the return to normal screen button, placed in the lower part of the window.

Multiscreen

In the quads view of 1x1, 2x2, 3x3 or 4x4, the user can select which camera wants to view in each quad or associate a tour to a quad while the rest displays other interesting cameras.

The selected cameras can belong to different units of a group.

To select a camera in a certain quad, you have to select first the quad that will change its frame and then, select the camera.

The *"drag and drop"* method can be used also, click over the camera wanted to use and without loosen the left button of the mouse, drag it till the chosen quad.

If you make double click over one of the quads, the corresponding camera will be shown alone in normal size.

Reduced visor

To facilitate the video refreshment when the connection with the remote unit is made across networks with a limited bandwidth there is an option available of seeing a unique camera in a reduced size visor, the image resolution is smallest but the refreshment speed is increased.

You can come back to full size by clicking in the same icon.

Live video image recording

The user has also a button to records of any live video sequence displayed in the main viewer. When multiscreen is selected make sure that the images you want to use are in the active quad ***it only records of the selected camera at every moment***.

The activation/deactivation is manual. When the recording has been activated the button changes its colour from yellow to red. These images are stored in the local hard disk and are managed from the event log screen.

The Supervisor can be configured to records automatically the incoming live video. For further information please consult the *Configuration* chapter.

Quad camera cancellation

Both live video and full screen you can eliminate cameras in quad mode through this button .

Audio bidirectional connection

The Supervisor can open an audio bidirectional channel with the units. This connection can only be established with version 3.0 units or higher. To use this option is necessary that the remote unit audio is properly enabled and configured. The bidirectional audio is available for all the users except by the inspector user and the communication ports configuration can only be done by the administrator user.

Once we are connected to the unit and if it has audio it appears two icons in the live video window and a message displaying the connection status.

The first one allows us to start and stop the bidirectional communication and the second one allows us to open and close the microphone channel.

6.3 Dome control and snapshots

Capturing video snapshots in live video

In the left side of the screen there is a reserved panel for capturing video snapshots. The snapshots can be captured by clicking on the photo icon when the images that you want to capture are displayed in the main viewer or in the active quad when using the multiscreen mode.

Fig. 21 – Snapshot Panel

All the snapshots are stored as events in the event log screen where they can be recovered and processed.

Domes control panel

When a dome camera is displayed, the lower part of the screen displays a control panel

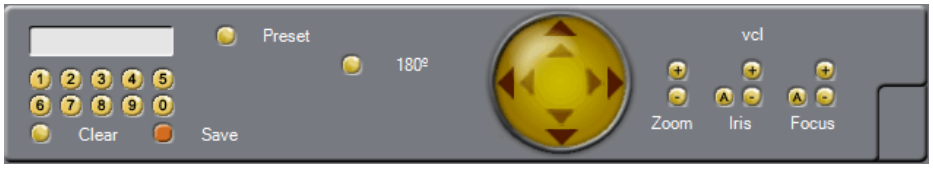


Fig. 22 – Dome control panel

The application can manage domes from multiple manufacturers, the panel changes depending on the dome model being used but there are common controls as camera movement using the control movement icon, zoom, iris and auto-focus.

Presets

To move the dome to a programmed position -or preset- there is no need to use the mouse, you can use the controls placed on the left side of the screen, first select the number of preset wanted to use and next the preset button.

On Screen Control (OSC)

The dome can move and zoom in an intuitive way through the on screen control. When a dome is selected, by clicking in the central wheel of the mouse, a virtual joystick appears in the video visor. Moving the mouse it will move the dome consequently. Moving the mouse wheel forwards or backwards it will zoom in or zoom out respectively. Clicking again in the mouse wheel it will come back to the mouse normal use.

7 Recorded video

Whenever there is a connection to a unit or a group, an authorized user can access to the *Recorded Video* screen. From this screen any image recorded in the selected unit can be visualized.

When you connect to a unit it appears the summary of recordings of the date with the recoding diagram of all the cameras along the day.

Select in the summary of recordings of the day **the camera and the time** you wish to view.

Select the day in the **calendar** between the marked out video days: yellow, current day, white, days with video.

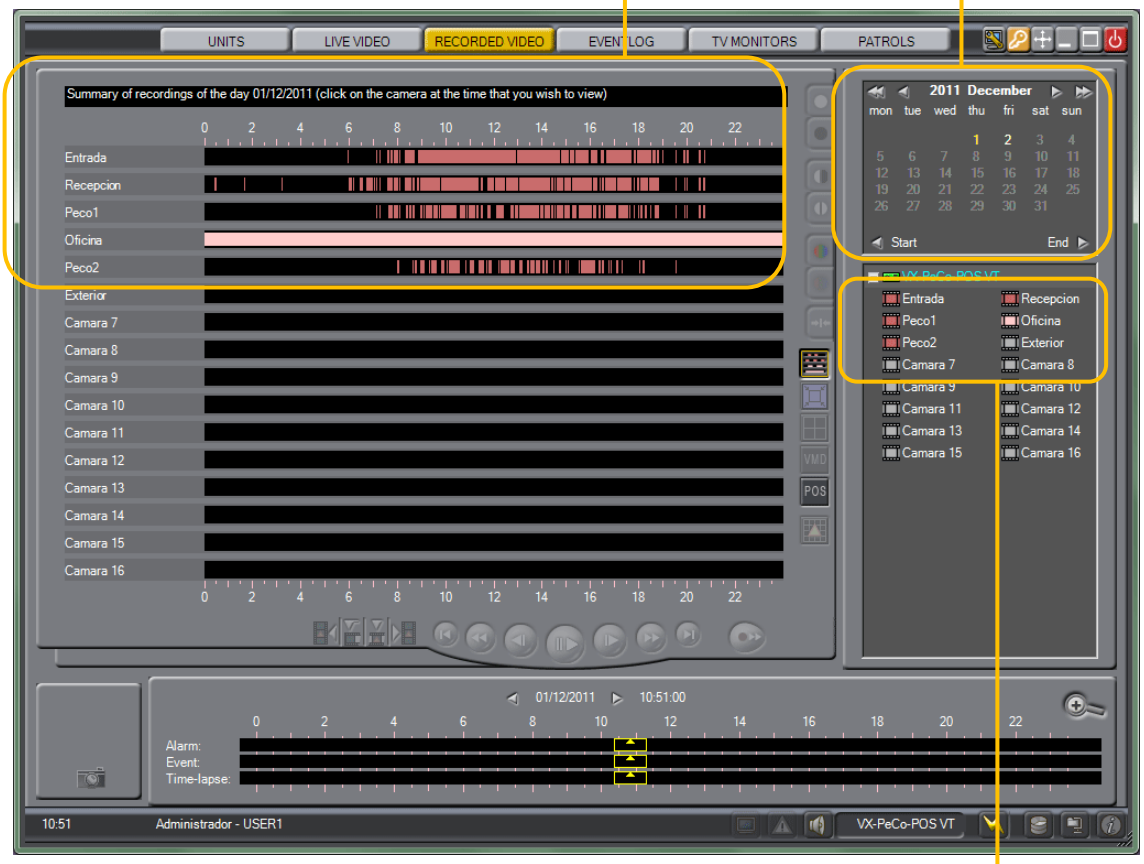


Fig. 23 – Summary of recordings of the day

Bear in mind the **the recording type** when you choose the camera:
Alarm recording / Event recording / Time-lapse recording

When you connect to a group it appears the last recorded image available.

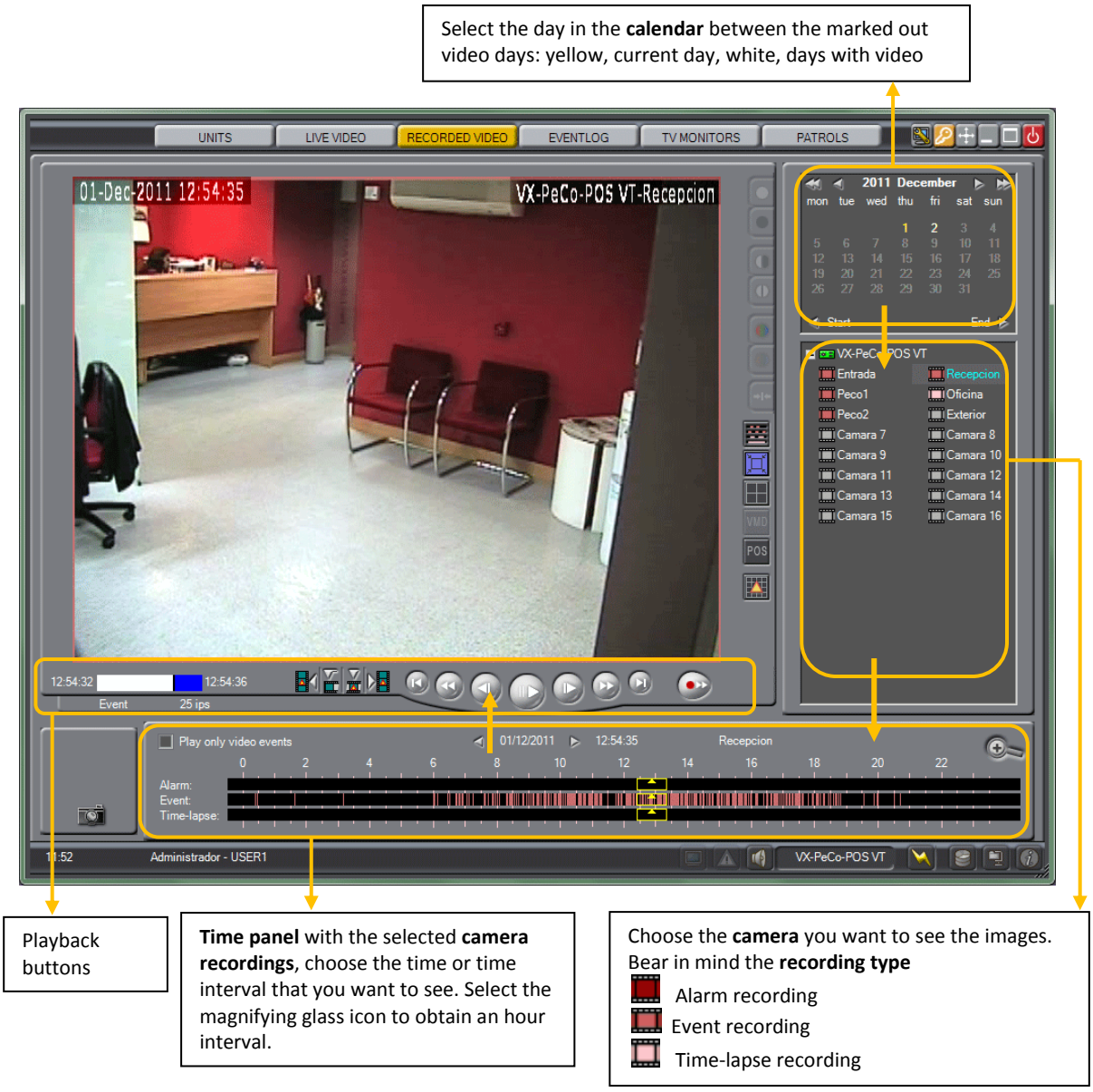


Fig. 24 – Recording video visualization screen

If you want to select a certain sequence the application has a calendar and a time panel that differs graphically the recording intervals according to the type of sequence. The central area contains the recorded video viewer where the sequences recorded by the unit are played back.

7.1 Sequence selection playback and sequence local recording

To select any recorded sequence in a remote unit:

- Select the time and the camera you want to watch video in the recording summary.
- You can select the day to obtain images in the calendar placed at the upper right side of the screen.
- If you want to select another camera click in the icon to come back to the recording summary.
- Click in the icon to see recording video from up to four cameras simultaneously, to come back to a single camera click in the icon again.
- In the time panel select the hourly interval and adjust it selecting a concrete hour.
- The sequence corresponding to the selected recording will be displayed in the main viewer.

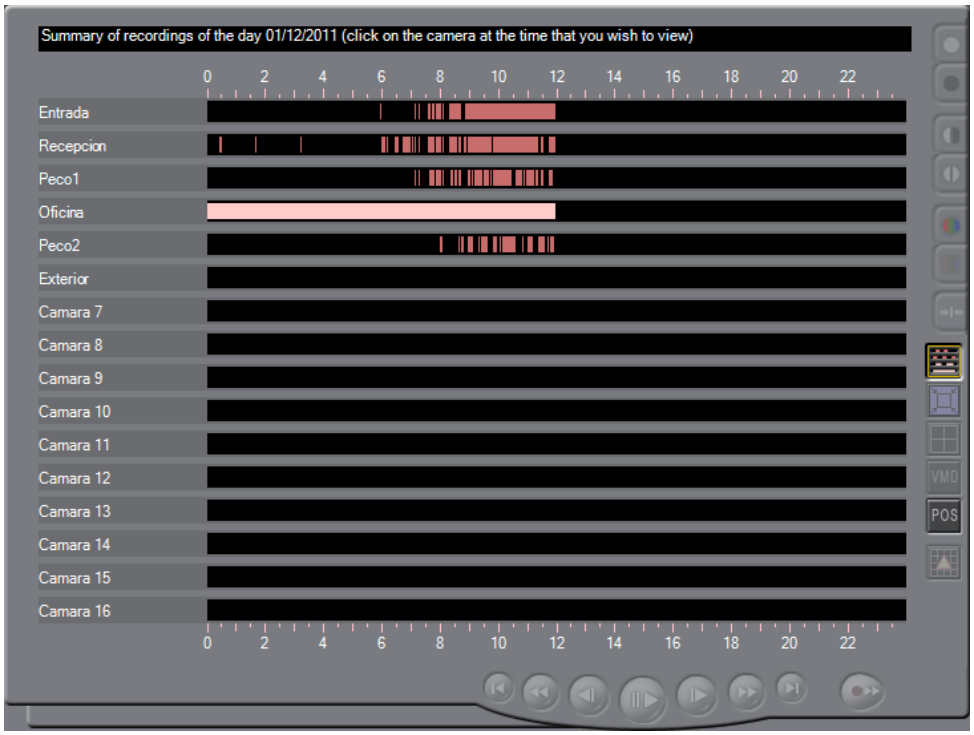


Fig. 25 – Summary of recordings

To select a recorded sequence in a group:

- Select in the calendar the day you want to get images.
- Choose which camera you want to get images in the camera selector.
- In the time panel select the hourly interval and adjust it selecting a concrete hour.
- Click in the icon to see recording video from up to four cameras simultaneously, to come back to a single camera click in the icon again
- The sequence corresponding to the selected recording will be displayed in the main viewer.

Once the sequence has been selected you could watch the corresponding image in pause mode on the central viewer. To playback a sequence use the playback controls placed at the bottom of the viewer.

Fig. 26 – Sequence playback

To facilitate the video reception when the connection with the remote unit is made through networks with a limited bandwidth it's possible to watch recording video in a 320x240 visor with high quality images and in a 256x192 visor with images in lower quality but higher refreshment speed.

Click once in the icon to change the visor to 320x240 resolution and once more to change to 256x192 resolution.

You can come back to full size by clicking again in the same icon.

To come back to the summary of recordings window click in the icon.

You can reproduce recording video in up to four cameras simultaneously, click in the icon to display quads in the main viewer, if you want to change a camera select first the quad, which will change its frame and then, select the camera

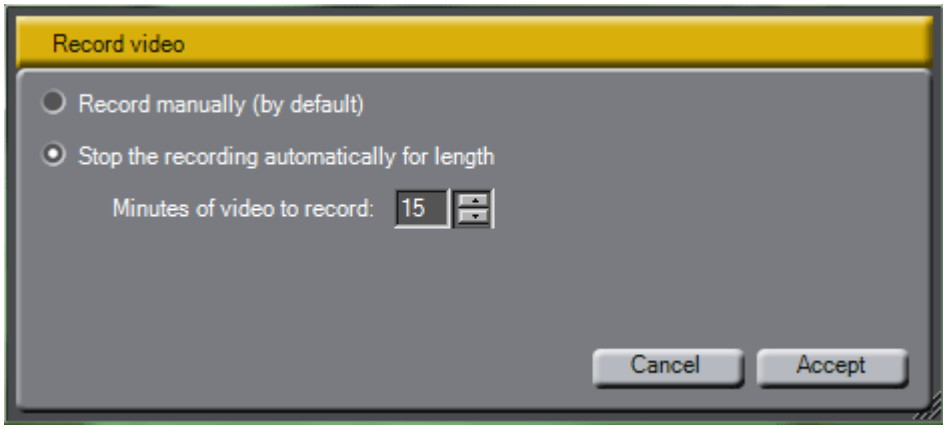
When you record a video or take a snapshot it only affects the selected quad.

Note that if the selected cameras reproduce recording video at different speeds may not be synchronized during playback.

7.1.1 Local recording

In the recording video tab you can record locally the images we are playing, press the icon placed besides the playback controls, it appears the following window where it is possible to choose between record locally (by default) where the user stops the recording as likes or record automatically, that sets the recording video length in minutes.

The images are recording and playing as fast as possible.



You can access the local recording video from the eventlog where you can export, take snapshots and playback the video as from the Supervisor VS viewer as from the Video Player application that it is installed with it, for further information about the Video Player please consult the Appendix 4.

7.2 Alarm and event advanced search

To facilitate the events and alarms searching, there can be displayed in 16 mini-viewfinders on the screen. Once the camera, date and time are selected, click in the event mini-viewfinders button placed on the right of the video viewer.

There are displayed the 16 alarms and events recorded from the selected date and time. Each of them, event or alarm, are showing the image when the alarm has been activated.

To see the following or the previous 16 events use the forward or the backward leap button respectively.

You can select any of the mini-viewfinders to refresh the associated information on the screen. The frame of the selected mini-viewfinder is marked in yellow.

You can playback video forwards or backwards over the selected mini-viewfinder with the recorded video buttons. As well you can playback the selected mini-viewfinder with a double click on it and stop the image with a simple click.

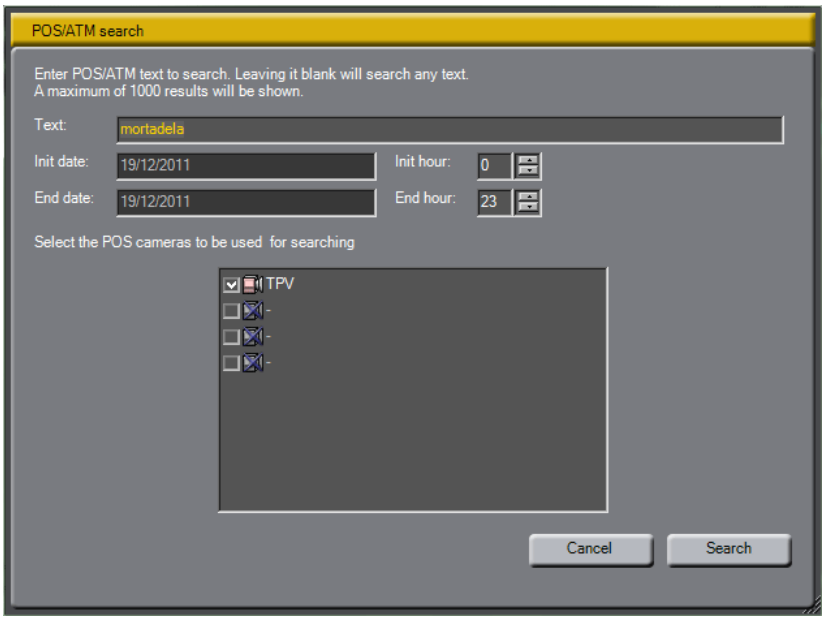
Fig. 27 – Event mini-viewfinders

You can come back to the central viewer normal size by clicking in the mini-viewfinder button. The recorded video screen will display the last image that the selected mini-viewfinder has on it.

7.3 POS Event searching

The Supervisor VS is compatible with POS function units. In the recorded video screen when you select a camera with POS data the

button is enabling. To make a searching enter the text, choose the date, the init and the end hour, and select the POS camera.



Once the data is filtered it appears in the lower bar and the event mini-viewfinder is enabled

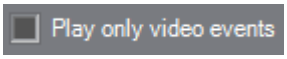
. In the upper part you can see the searching data and the list of the sequences, when you select a sequence it is reproduced in the viewer.

To make a new search or modify the current one, press the New Search button and it appears the search window with the data from the last search.

7.4 Advanced alarm and event playback

When a camera is recording by event the Supervisor VS offers the possibility to playback and records locally only the events generated while recording, in a VMD search or through POS filters.

Pres the check box “Play only video events” placed over the schedule panel.



This option makes easier the local recording of the video events, grouping them together in a sequence accessible from the eventlog.

7.5 Intelligent search on recordings

It is possible to make searches by motion detection on time-lapse recording video and over events in version 4.0 units, generally if the VMD button is active, you can make intelligent searches over the camera recordings.. First, select a camera then select a day and click in the motion detection button (VDM). There will appear the VMD configuration buttons, in the screen it will be displayed the results of the last intelligent search that has been made for the same camera and day.

Once the VMD mode is selected, is not possible to change the camera or the searching day.

To configure the VMD, click on the grid button and select over the video visor the areas where you want to detect motion. The areas with active detection are marked with a white point.

Fig. 28 – Configuration of the VMD

You have to select as well the motion detection sensibility. You can choose between high sensibility (H), medium (M) and low (L). We recommend you to use the lowest sensibility available to search motion of enough entity, this way you avoid to obtain as result a high number of false positives due to little movements in the image.

Once the search is configured, you can execute it by clicking in the filter button. After a few seconds (approximately 20 s.) the results will appear in the screen. In the time panel, over the time-lapse recording strip it will be mark in green the intervals of time in which motion has been detected in accordance with the given configuration.

Fig. 29 – Result of the VMD search in the time panel

You can use the forwards or backwards leap buttons to jump from one motion detection to the following or the previous one.

You can playback the video or move inside the time panel like in a time lapse recording.

To come back to the usual way of searching and playback, click again in the VMD button.

Motion mini-viewfinders

Is possible to display in mini-viewfinders the motion detection results, as if there were event recordings. Once the searching has been done click in the motion mini-viewfinders button.

There will be displayed the 16 motions detected from the selected date and time.

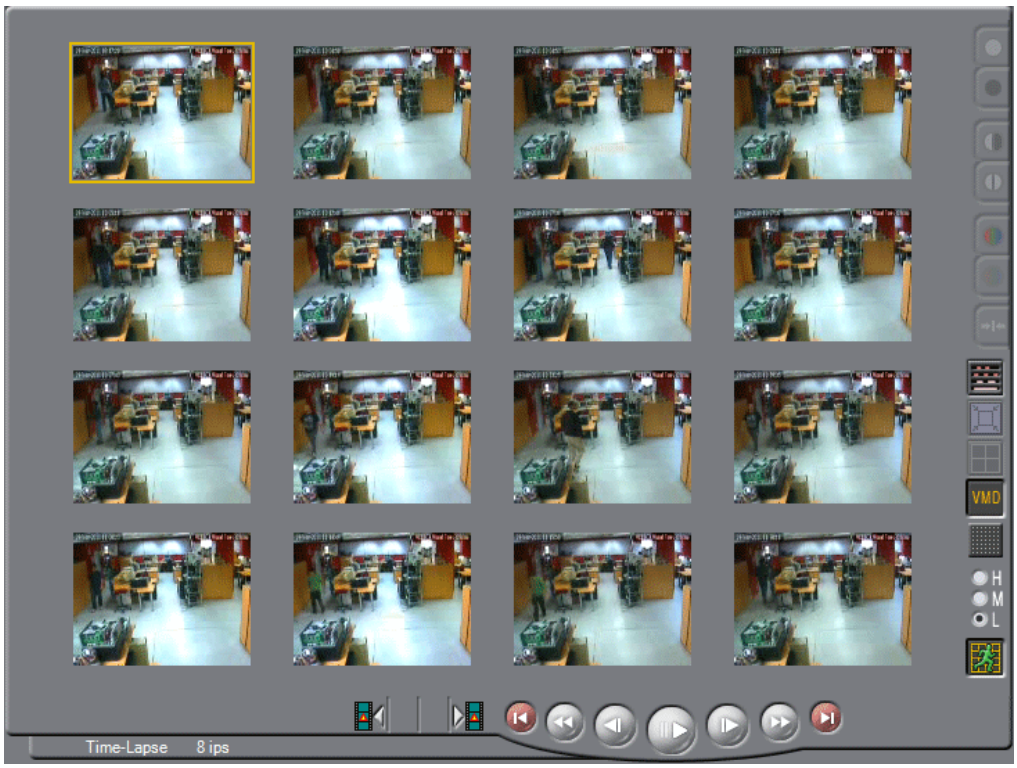


Fig. 30 – Motion mini-viewfinders

To see the following or the previous 16 events use the forward or the backward leap button respectively.

You can select any of the mini-viewfinders to refresh the associated information on the screen. The frame of the selected mini-viewfinder is marked in yellow.

You can playback video forwards or backwards over the selected mini-viewfinder with the recorded video buttons. As well you can reproduce it through a double click on it and stop the image with a simple click.

If you want to go out of the motion mini-viewfinders click again in the mini-viewfinders button. You will continue being in the VMD mode but in normal size. The recording video screen will display the last image of the last selected mini-viewfinder.

8 Event log

8.1 General description of the event log screen

During a working session some events are generated as result of the connection to remote installations. These events and its contents (data, photos, video...) are stored in a data base where the authorized users (Inspector, Supervisor and Administrator) can consult them and manage it from the Eventlog screen. Each event is identified through the user that has generated it.

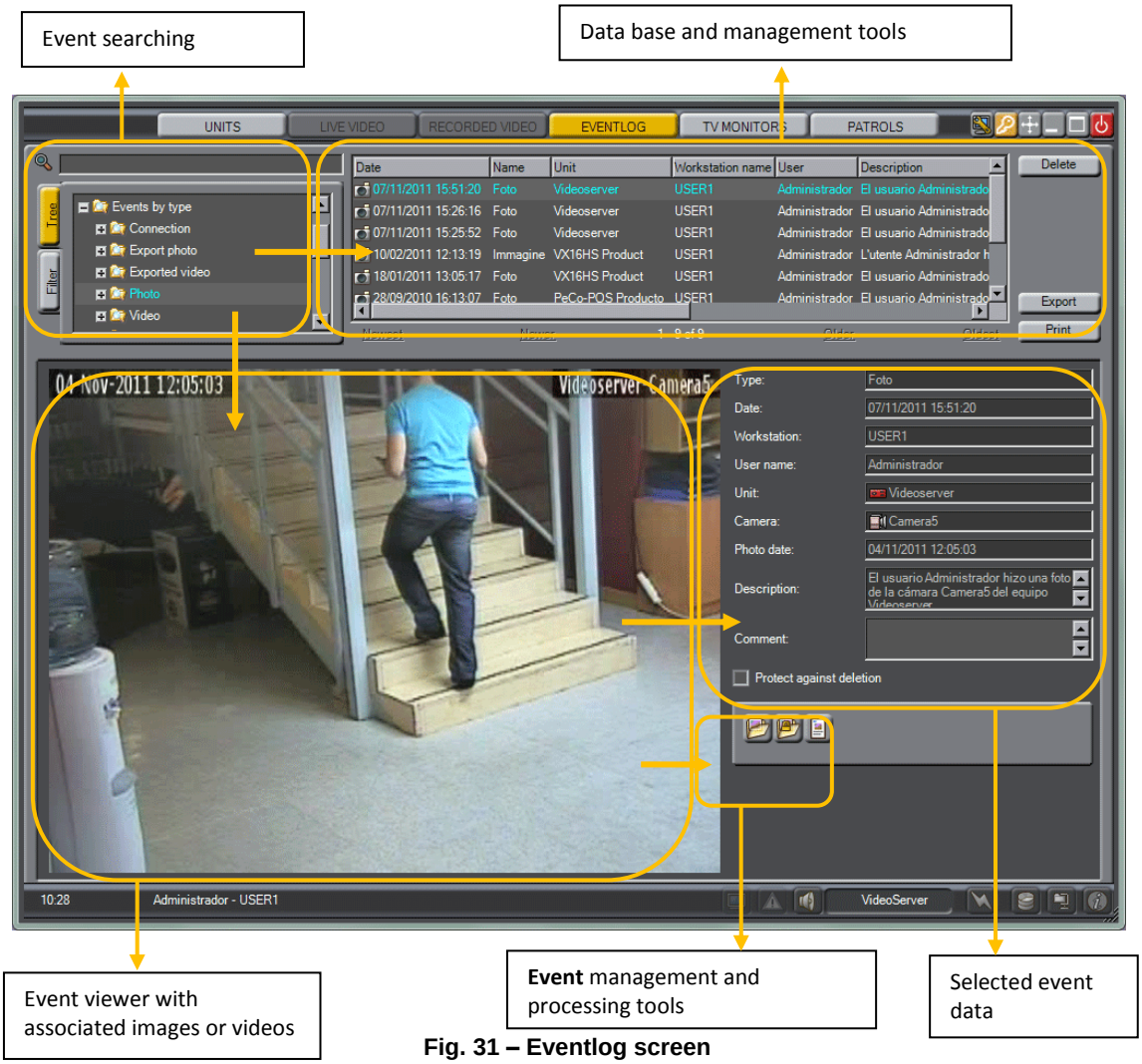


Fig. 31 – Eventlog screen

The list of events is displayed in the upper part of the screen, only the most recent thousand events are showed, to access to older events use the browsing tools. In the lower part there appear the details of the selected event and its appearance is different according to the event selected in each moment. The list can be arranged by any of its columns.

Arrange and filter

Since the list of events can be very extensive, there are two searching tools: *trees* and *filters*. The *trees* are automated filters that allow you to carry out quick searches.

The *filters* establish manually some conditions to reduce the list of events. It's possible to start from an automatic filter selected in the *Tree* tab and once it is selected change to *Filter* tab and define new conditions.

Delete, export and print

The management tools allow you to delete events, print and export the list, complete or filtered.

The events list is exported in CSV format which can be read directly with any text editor or by applications like Microsoft Excel.

8.2 Events types

In the event data base the following events are recorded:

/ Connection / connection failure

It records the connection beginning and end to a unit or a group and if it is successful or it is failure.

Event log management

It shows when an event log manual deleting has been performed until a certain date.

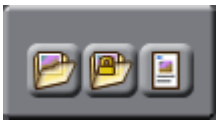
Export photo

It provides information of photo exportation.

Exported video

It generates information of the exported video from the Supervisor VS.

Photo



Whenever a snapshot is taken, from live or recorded video, a photo event is generated with the image and the associated information. When you open a photo event besides the image there are a set of buttons to export the image in JPG format, export it in BMP format with watermark * or create a report from a snapshot.

** See the Appendix 2 Watermark.*

/ Video

Each time that you record video in the Supervisor from a remote unit, as much live video as recorded video, a video event is generate, it stores the video and the associated information, this way it can be reproduced whenever you want without having to connect to the unit.

When you open the event, besides the main video viewer there are a set of buttons with the controls to playback and snapshot, for further information please consult the Event viewer section.

Since version 4.0 the video recorded by the Supervisor VS is signed, signature is checked when playing video and it appears a warning message in case the video doesn't belong to the Supervisor.

Local settings

This event is generated when it changes the Supervisor VS local configuration, this configuration can be modified only by the Administrator user.

Session

It records the sessions that each user starts and when it was done.

Action

It reflects the input status changes.

/ / Patrols

This event includes the patrols executed by the Supervisor VS, with or without failures, showing the starting and ending time.

Remote Configuration

This event is generated when the configuration of a remote unit is changed. The remote unit configuration can only be modified by the administrator user.

Report

These reports are created from the snapshots captured locally, once there are displayed in the main viewer, there can be modified with the processing image controls. The reports can be printed in any of the printers that the user has defined.

Under the event list there is a detailed zone where it appears the corresponding fields of each event, all of them are different depending on the selected event.

For example for a photo event:

The reports are created by the user from the snapshots, modified or not, it's associated information and the user remarks. The data and the image can be printed together. The reports are stored in the event log to make easy its later enquiry.

The report image comes necessarily from a real snapshot and can be modified in order to display in the report, the outstanding information. The following filters are available in the event control panel:

Zoom to fit, Mask to hide some zones and Colour, Brightness and Gamma to improve the quality of the image.

To apply any of the filters, first select the filter you want to use and its parameters. Next mark with the mouse the area you want to change and click in the button to apply. The button is to undo the last filter applied and the button to recover the initial image.

Once the changes are made there can be recorded with the Save button, print the report or export the resulting image with watermark.

/ Failure and failure fixed

This event includes unit failures (disc failure / video signal failure) and when it has been solved.

/ / Unit management

It collects the changes on the unit data base.

/ Unit warning and unit warning finished

This event includes unit anomalies (disk anomalies / custody key activated) and its solution.

/ Pending Visual Alarm Verification / Recognaised VAV

Please consult the Visual Alarm Verification appendix.

8.3 Event Viewer

The event viewer can play in a simple an efficient way the video events.

When you select a video event, it plays automatically; under the viewer a progress bar shows the video advance and allows placing the cursor along the bar at any place.

Besides the bar two there are two buttons to select a part of the sequence, place the beginning with the A button and the end with the B button, to export the selection click in the export button you can export the selection, the complete sequence or exit.

With the video keypad you can play the sequence at several speeds, step by step or rewind to the beginning.

Plus the event viewer the Supervisor VS offers other possibility to playback video with the Video Player tool. You can open it from this icon , for further information please consult the Appendix 4.

8.4 Event management

Besides the options that each event has for its edition or exportation, all the events have in common the ability of being remarked through a comment field that can be edited by the users.

The events can be protected against deletion, this way they can preserve the information locally without being exported.

In the detail zone of each event, the last field is the protection against deletion, if you check it, this event will not be deleted during the event log management.

The deletion management is done manually from the icon that appears in the window lower bar or from the *Clear event log* option in the *Configuration / Data base* screen. For further information please consult the *Configuration* chapter.

In the event list appears those which are protected and those which are not. It is advisable to filter the protected events before make a manual deleting and unprotect those which are not needed. On the opposite case the event log will be bigger each time.

9 TV Monitors

The VS-Tv units allows you to connect a VGA monitor to the IP network this way there can show at the same time live video of multiple VS or VX recording units in an external monitor. There can be multiple VS-Tv units in a network, therefore multiple external monitors.

This solution unloads the Supervisor from the task of communicate to the remote units and display video, giving the system a great flexibility.

In this window the following user can operate:

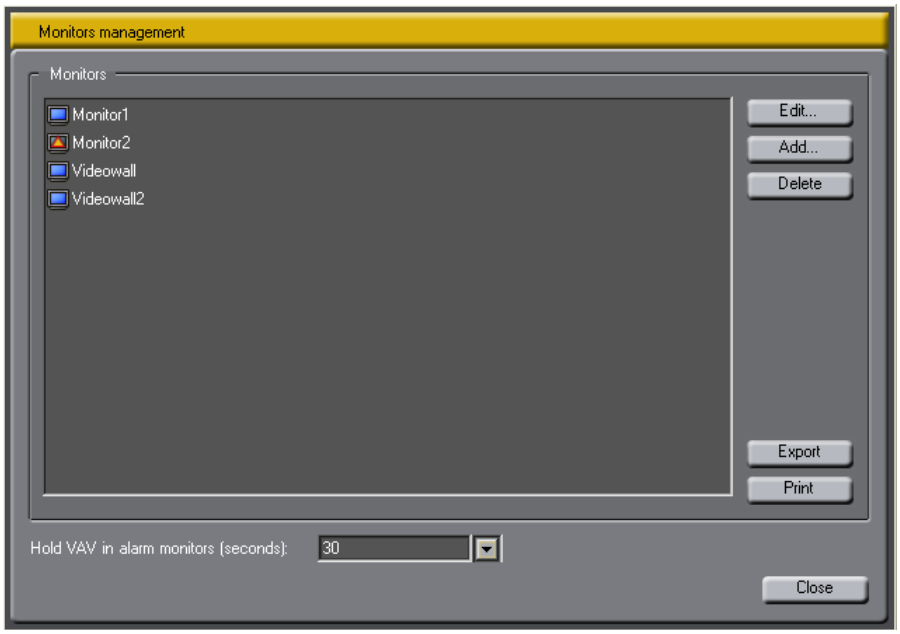
- Operator and Advanced operator user: He can work with the VS-Tv, changing cameras, views and using saved views and global presentations.
- Supervisor user: He can also save views but he cannot delete it.
- Administrator user: He can also delete views, add or delete VS-Tv units, and enable or disable the TV Monitors section.

9.1 Configuration and use of the VS-Tv in the Supervisor VS

To work with VS-Tv units in the Supervisor first it is necessary to enable the remote monitor management section in the *Configuration* screen, this section can only be enabled by the administrator user:

When the external monitors are enabled it appears a new tap in the Supervisor main menu called *TV Monitors*.

In the *TV Monitors* screen, it appears a button *Monitors management* that is only available for the administrator user.



Here you can add, edit and eliminate monitors (VS-TV units). Each VS-TV needs an IP address in the network, a name, which appears in the monitors list and the position that fills in the list.

If you want that a monitor works as alarm monitor check the option Show automatically video of incoming alarms.

Inside the monitors management window there is a parameter that defines how long will display the monitor or monitors configured as alarm monitors the income VAV, for further information please consult the Appendix1: Visual Alarm Verification VAV.

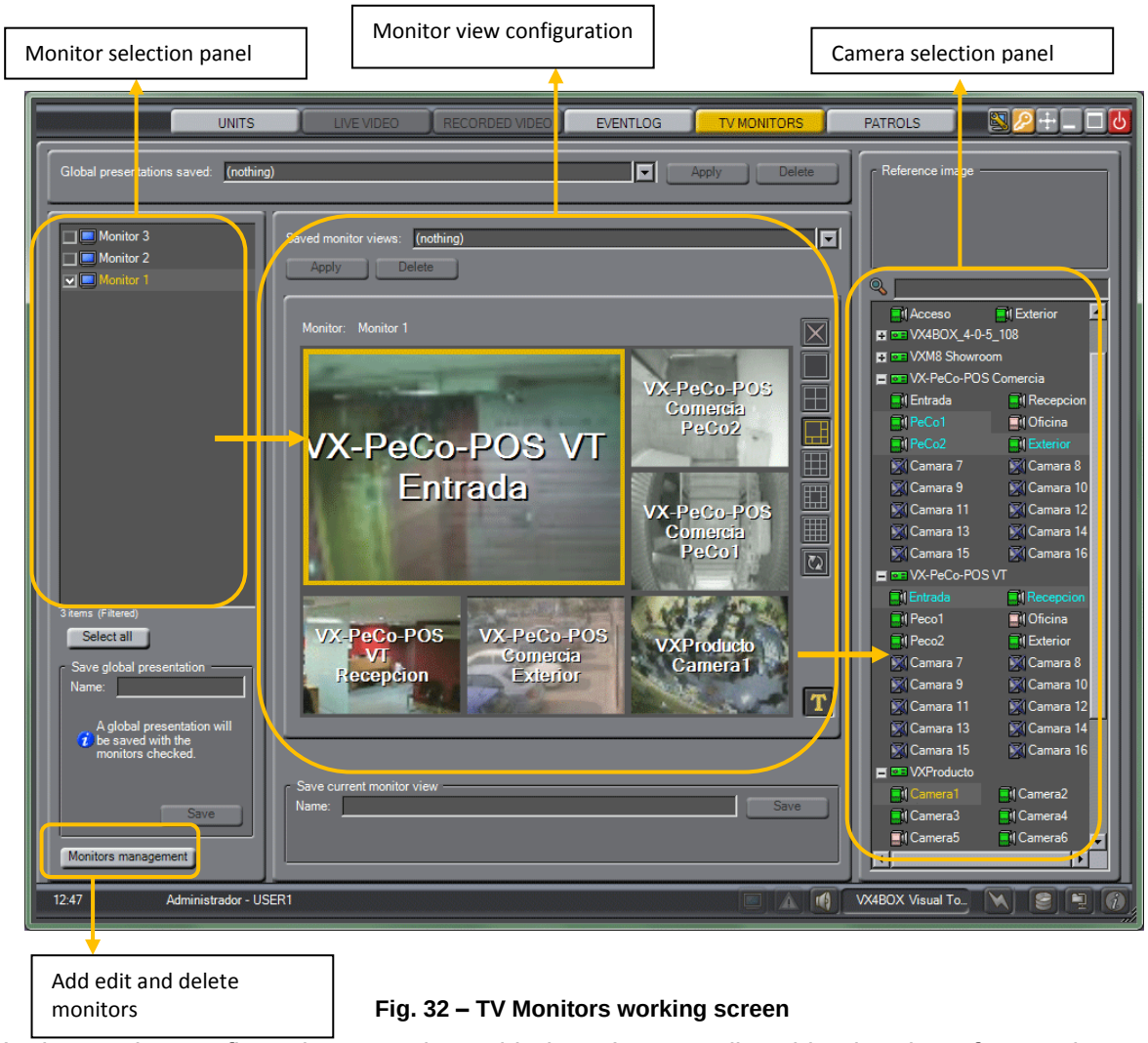


Fig. 32 – TV Monitors working screen

In the monitor configuration central panel it doesn't appear live video but the reference images of each camera stored in the Supervisor data base, these images can only be taken by the administrator user. Live video is displayed only in the external monitor.

Over the reference image of each camera is displayed the unit name and the selected camera. This text can be eliminated with the button put or remove information text.

External monitors view composition

To compose or modify a view in an external monitor:

First you have to select the monitor by clicking in the monitor selection panel. The last monitor configuration will be displayed in the central part of the screen. If you want to change the type of the monitor composition, select it with the right buttons.

Next you should select or modify the cameras that are displayed in each quad. There are two methods available:

First select the quad, the frame will be stood out, then select the camera you want to use in the camera panel on the right.

You can also use the drag and drop method, click in the icon of the camera and without releasing the left button of the mouse, drag it until the quad you wanted to use.

If you want to leave a monitor temporarily in rest – without displaying video – then click in the power off button. This option is interesting to avoid that the VS-Tv unit consumes bandwidth of the IP network bringing live video of the remote unit when is not necessary.

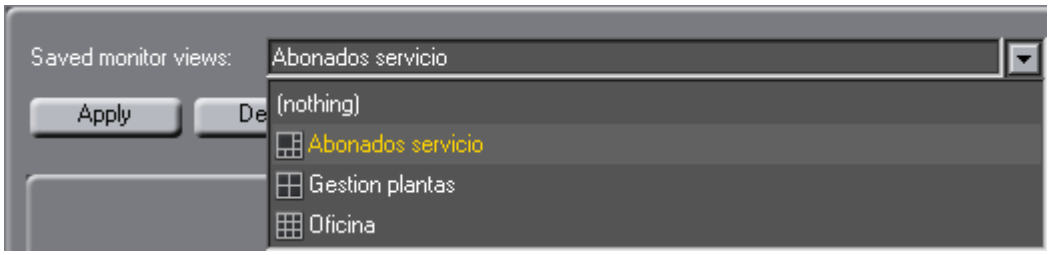
9.2 Use of views and global presentations

Reuse of saved monitor views

It is possible to reuse a saved monitor view without having to compose manually a monitor view each time that you want to change it. A saved view can be applied to any of the monitors without mattering which monitor was used in origin.

To save the current view of the selected monitor it is enough to give a name to the view and click in the *Save* button.

To apply to a monitor a saved view, first select the monitor you want to use and next the composition in the drop down menu.



If you want to delete a saved monitor view, select it in the drop down menu and click in *Delete* (only the administrator user can delete them). If you want to edit a configuration, first you have to applied it, change it on the monitor, and finally save it with the same name.

Reuse of stored global presentations

A global presentation is a view that collects the configuration of multiple monitors simultaneously (for example a video wall configuration of 4 monitors). It can affect all monitors or only a part of them, as it is decided at the creation of the global presentation.

To create a global presentation, mark in the monitor selection panel those that you want to include in the presentation. Next, you have to introduce a name to save the presentation and click in the *Save*.

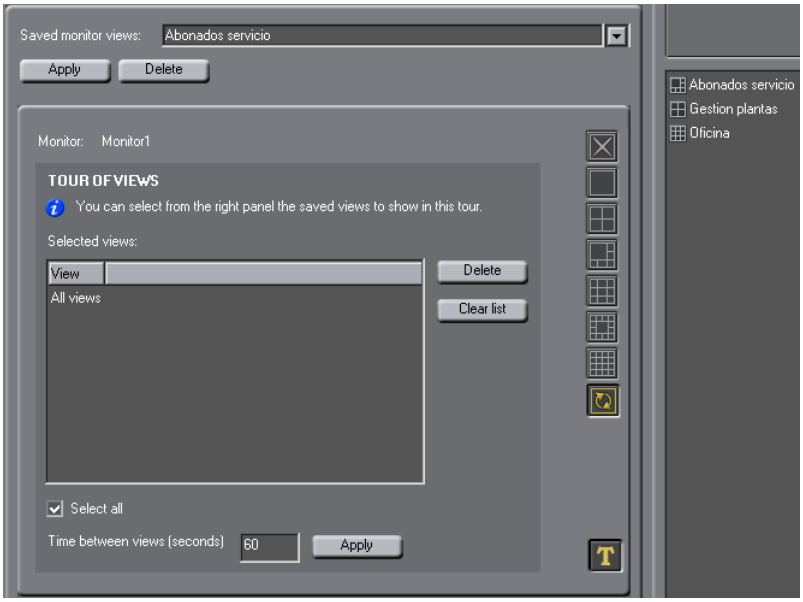
If you use the name of an existing presentation, it will be overwritten with the new configuration.

To use a stored global presentation you have to select it on the drop-down list in the upper part of the screen.

If you want to delete a global presentation select it on the drop-down list and click in the *Delete* button (only the administrator user can delete it). If you want to edit a presentation, first apply it, change the affected monitors and finally save it with the same name.

Patrols view

There is a view named Patrol that allows you to create a patrol with some or all the saved views of each monitor. Select the monitor and the saved views you want to use. The patrol initially is a system patrol that includes all the views, you can select the views in the panel on the right.



The time between views is defined initially in 60 seconds but it can be modified. The configuration of the last patrol is stored to use it later.

10 Patrols

In this window is managed the execution of patrols (generic, scheduled or one-time patrol) over the entire unit data base and the results can be consulted.

In the upper part of the screen there is a patrol list that includes summarized information of the configuration and list patrol.

In the central part, the screen shows detailed information from the selected patrol, its schedule, task and units, and a history report.

Also in the central part there is a window that shows an execution trace list of the scheduled patrols.

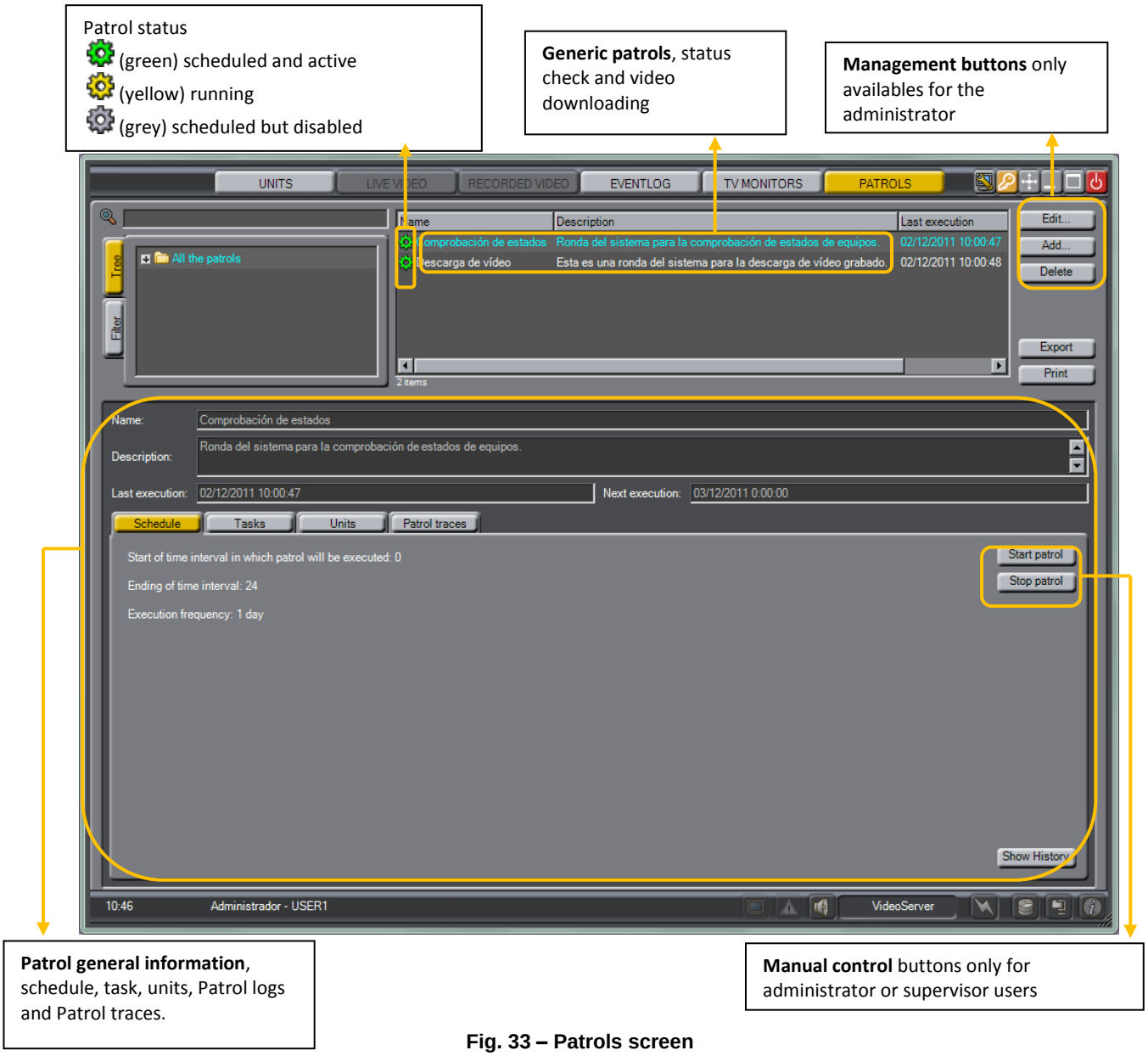


Fig. 33 – Patrols screen

The units can be associated to several patrols simultaneously, if you want to know how many patrols is associated to please consult the Units screen in the Info tab, the list on the right shows all the patrols to which they belongs to.

When you add a patrol you have to set first the planning through the running frequency, if you choose a week or month frequency then is possible to select the running day.

The following step for the scheduled patrols is to select the patrol task, the one-time patrols have a default task, and the last step is to select the unit belonging to each one.

There are two options, select all the data base units or select the units we want through filters.

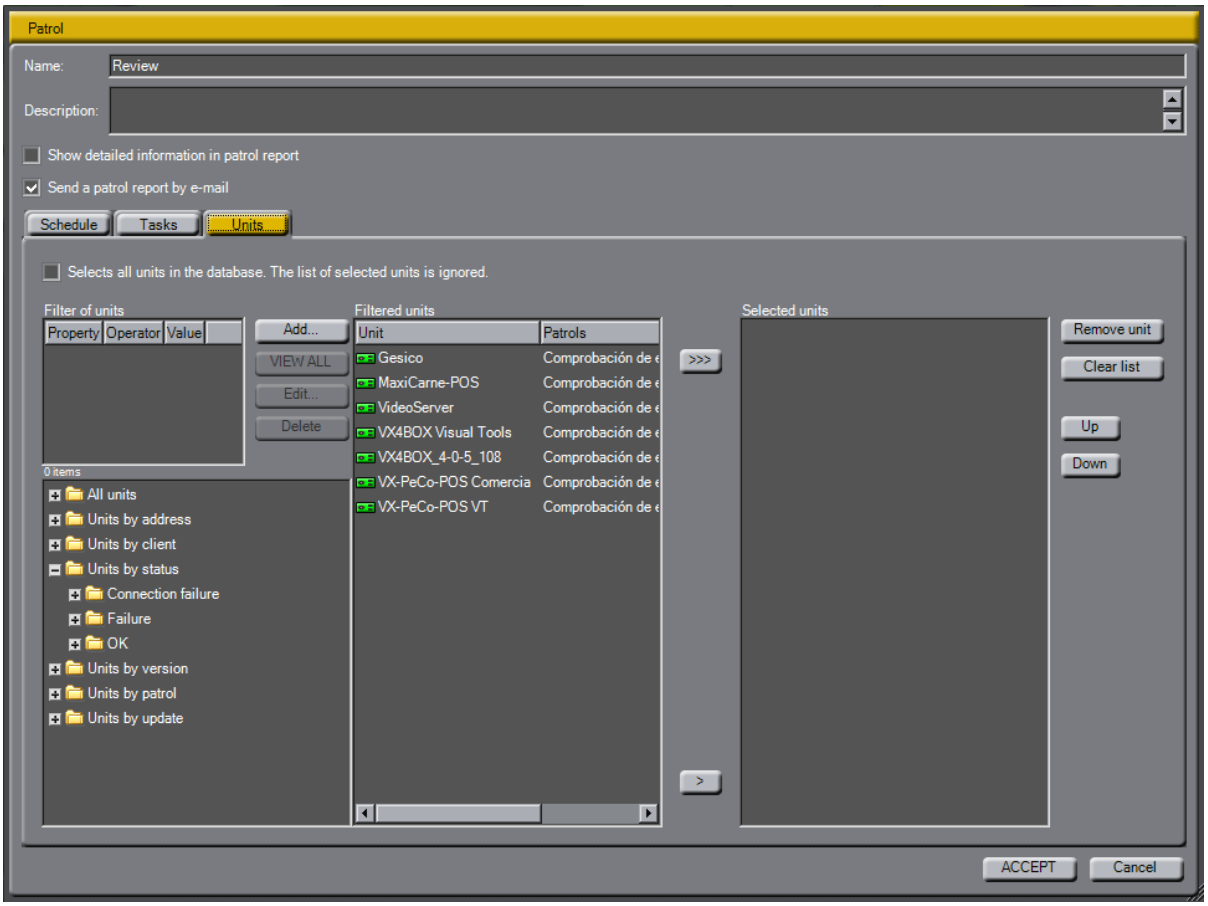


Fig. 34 – Selection units new patrol screen

10.1 Generic patrols

These patrols are created by default when the Supervisor VS is installed, there are applied to the entire data base and there cannot be deleted. There are executed once per day, although the frequency can be changed by the Administrator user.

Automatic status checking

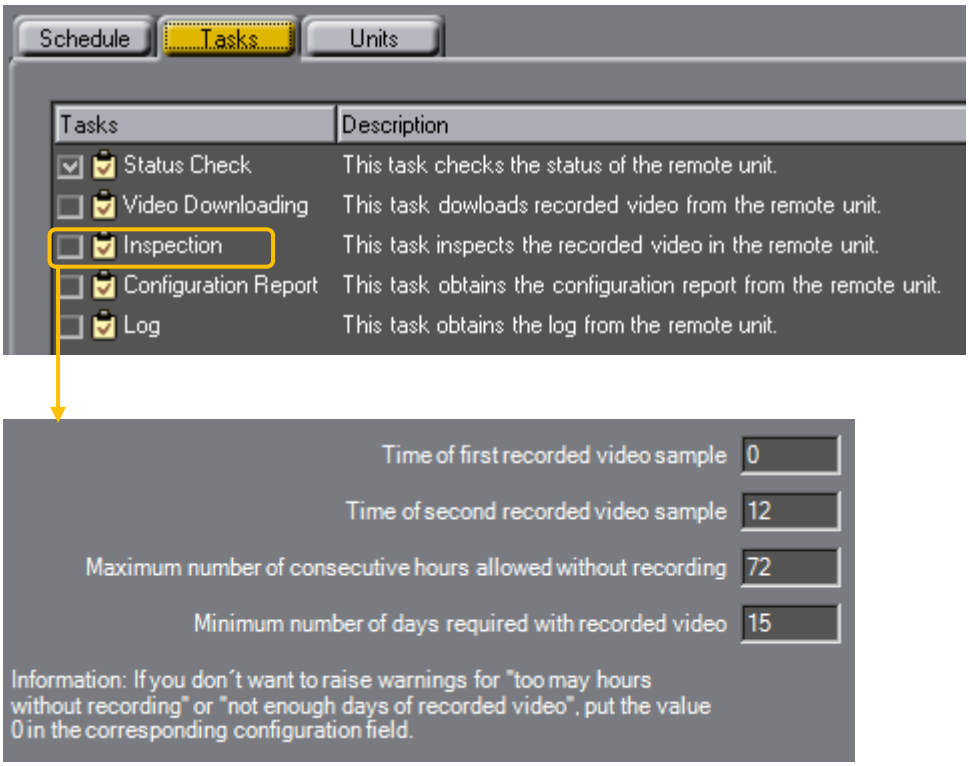
The automatic status checking verifies all the data base units, apart from the groups. This task works in the background and can be combined with scheduled patrols. Due to its bandwidth low cost and connection time the complete checking of the entire data base can be executed several times a day.

Video downloading

The video downloading patrols includes all the units with pending video download. There is a filter in the data base to know which units have pending scheduled downloads. Once the video has been downloaded the task is deleted and the video is stored in the eventlog as a video event. When the patrol ends, it generates a report with the unit list and the downloaded sequences showing whether successful or not.

10.2 Scheduled patrols

The scheduled patrols allow you to gather the data base units according to the user choices and to create independent patrols where you can choose and configure the tasks. You can schedule as many patrols as you want allthough you cannot create two patrols with the same name.


Schedule
Tasks
Units
Tasks
Description
Status Check
This task checks the status of the remote unit.
Video Downloading
This task dowloads recorded video from the remote unit.
Inspection
This task inspects the recorded video in the remote unit.
Configuration Report
This task obtains the configuration report from the remote unit.
Log
This task obtains the log from the remote unit.
Time of first recorded video sample
0
Time of second recorded video sample
12
Maximum number of consecutive hours allowed without recording
72
Minimum number of days required with recorded video
15
Information: If you don´t want to raise warnings for "too may hours without recording" or "not enough days of recorded video", put the value 0 in the corresponding configuration field.

There are five different tasks that a patrol can do1:

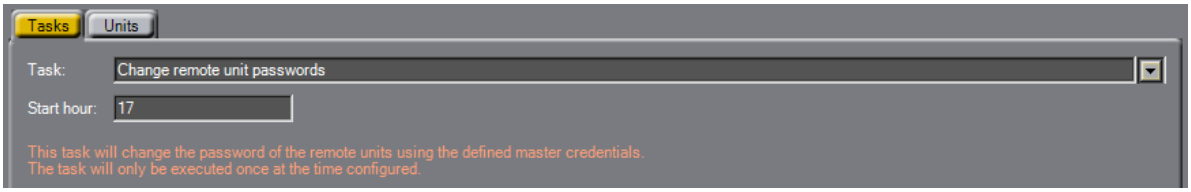
- Status check: This task is always active. All the scheduled patrols carry out this task by default.
- Video downloading: It carries out the pending video downloads.
- Inspection: It checks the remote unit recordings requesting a sample image and checking the user parameters, number of days required with recorded video and maximum number of hours allowed without recording. These two parameters can be changed in the Configuration window for units not included in the inspection patrol. This data is gathered in the Inspection tab on the Units window.
- Configuration report: It gets the unit configuration report that can be consulted from the Configuration tab on the Units window.
- Log: This task gets the unit log files incrementally.

A schedule patrol can be programmed to run continuously or run only once. If the patrol hasn't a schedule or it has already finished, it is not deleted but remains inactive.

10.3 One-time patrols

This patrol it only runs a one-time task that changes the remote unit passwords through the master credentials. It doesn't have a running frequency because it only run once at the selected time.

Membership of this patrol is not exclusive because there can be included into other patrols generic or scheduled.


Tasks
Units
Task:
Change remote unit passwords
Start hour:
17
This task will change the password of the remote units using the defined master credentials.
The task will only be executed once at the time configured.

When the patrol ends the units that have its passwords changed are deleted from the task.

10.4 Screen information

The information provided by the patrol updates the connection events registering them in the eventlog, but only including the significant changes, as in the case when the patrol detects a connection failure that the unit doesn't have previously.

Similarly, only when an alarm or an anomaly, appears or disappears, there are registered in the eventlog. When the failure happens for the first time a new event is generated, and when is repaired, the event icon changes from failure to fixed warning.

There are three types of patrols, the generic patrols are installed by default and the scheduled patrols are created by the users. All of them create a report that is accessible from the Show History button and as event from the Eventlog screen. This report can be sent by e-mail(in the Edit/Add patrol window), to do so you should select the *Send a patrol report by e-mail* option and configure the sending conditions in the Configuration window.

Every patrol can choose between show detailed information in the patrol report and only the anomalies.

[1] Bear in mind that you need access to the units at least as Supervisor user to obtain information and as Administrator user in the case of the configuration reports.

11 Configuration

To access to the configuration window click in the button placed in the menu bar.

This screen is only available for the Administrator user. The window is divided in several tabs described below.

11.1 General Data

In this tab you can change general data as the workstation name, language, manage the licence and users / permissions.

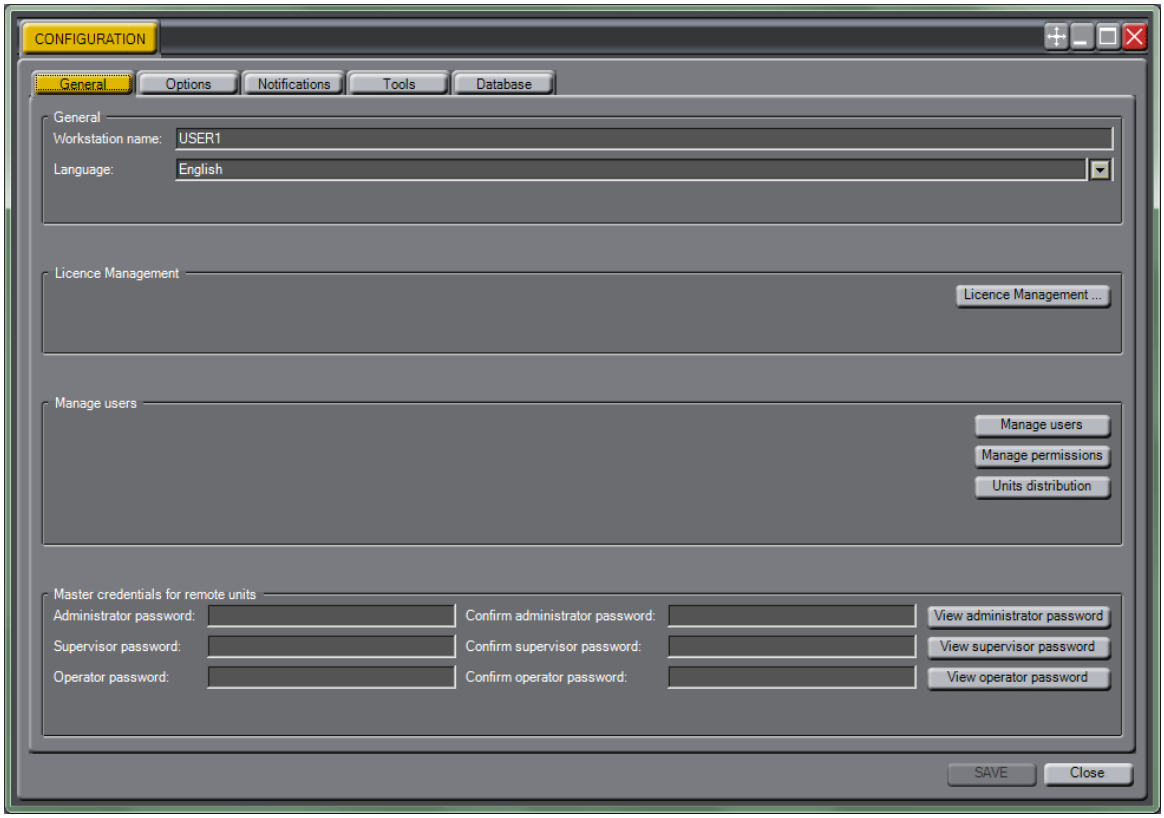


Fig. 35 – General data in configuration screen

Licence management

From this button you can access the licence management window, where it appears the information about the application licence and how to activate it. For further information please consult the chapter “Licence activation” in this manual.

Manage users

Manage users: This option opens a new window where you can edit, add or delete the users. By default there are five standard users, for further information see the chapter *User permission and access*.

Manage permissions: It opens a window to manage the permissions of each group. There are five default groups.

Unit's distribution: The units can be assigned and distributed into user groups depending on the client that there have defined, this way the group users there can only see their assigned clients. This option is only available for new groups because we cannot change permissions to predefined groups.

Master credentials for remote units

These are the default passwords used in some units for example the ones belonging to the same client, once there are defined there can be applied from a scheduled task (see the one-time patrol section), when editing a unit, or when changing the identity and passwords (see the Appendix 3: templates and configuration sending).

11.2 Options

In this tab you can change the following options:

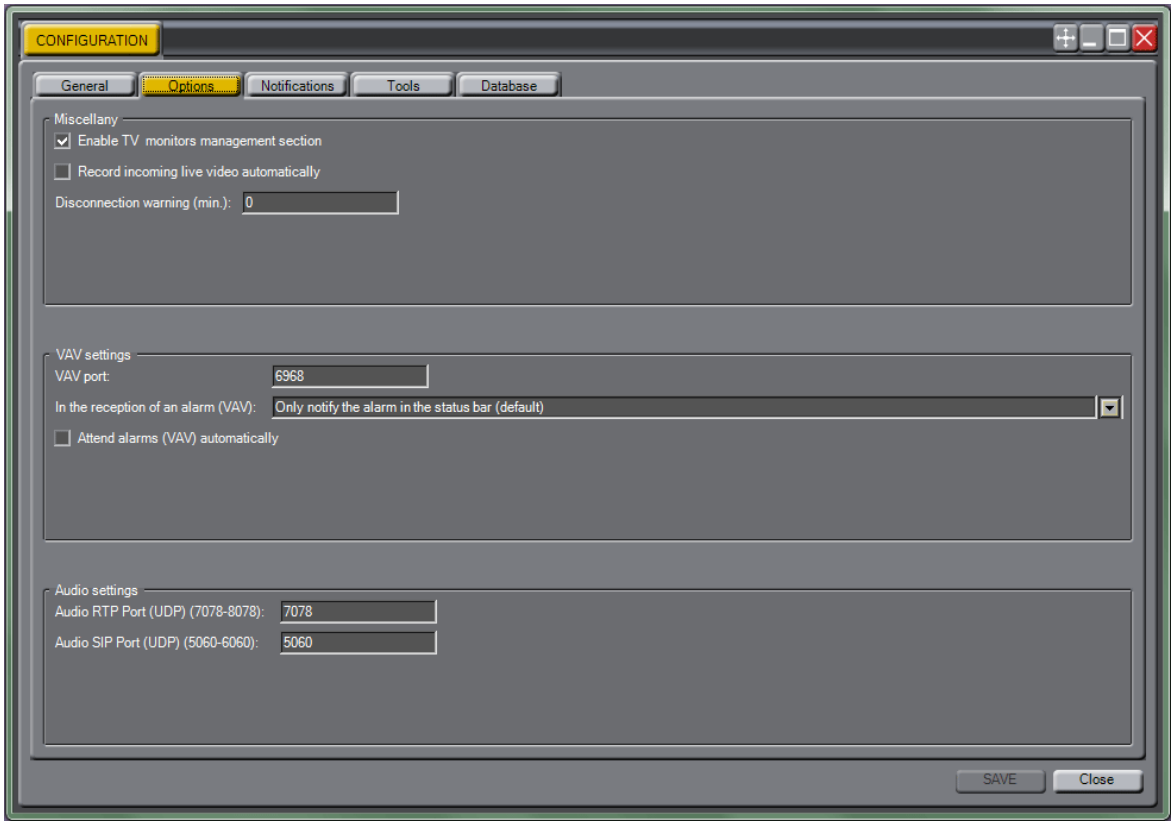


Fig. 36 – Options in configuration screen

Miscellany

Enable TV Monitor management section: Select this option to show in the main menu the TV Monitors tab and to allow its operation from the Supervisor.

Record incoming live video automatically: Select this option to records automatically the incoming live video received in the Supervisor. In the case of multiple visors it will only record from the camera selected in each moment. The recordings are registered as video events.

Disconnection warning (min): when connecting to a remote unit the application presents periodically a warning offering the user to disconnect. This period is expressed in minutes. The allowed maximum is 60 minutes. If you use the "0" the application will not disconnect never, until you do it manually.

VAV settings

VAV port: The TCP port where the Supervisor listens to the incoming VAV is indicated here. By default the application has defined the 6968 port. Find further information in the *Appendix 1 Visual Alarm Verification VAV*.

- In the reception of an alarm (VAV): Please consult the *Appendix 1 Visual Alarm Verification*.
- Attend alarms (VAV) automatically: Please consult the *Appendix 1 Visual Alarm Verification.*

Audio ports

These are the ports that the Supervisor VS use for the audio bidirectional channel. There is no need to match with the ones configured in the remote units, there are the following:

Audio RTP port (UDP) (7078-8078): By default 7078.

Audio SIP port (UDP) (5060-6060): By default 5060.

Note: to get the audio working properly you have to check that the remote unit router has the ports open and correctly mapped; the remote unit needs to have the audio enabled and configured. It is not necessary to open ports in the Supervisor router, although in case you have a firewall you must assure that it allows this connection.

11.3 Notifications

In this tab you can configure the parameters that generate notifications and the necessary data to send the patrol reports by e-mail.

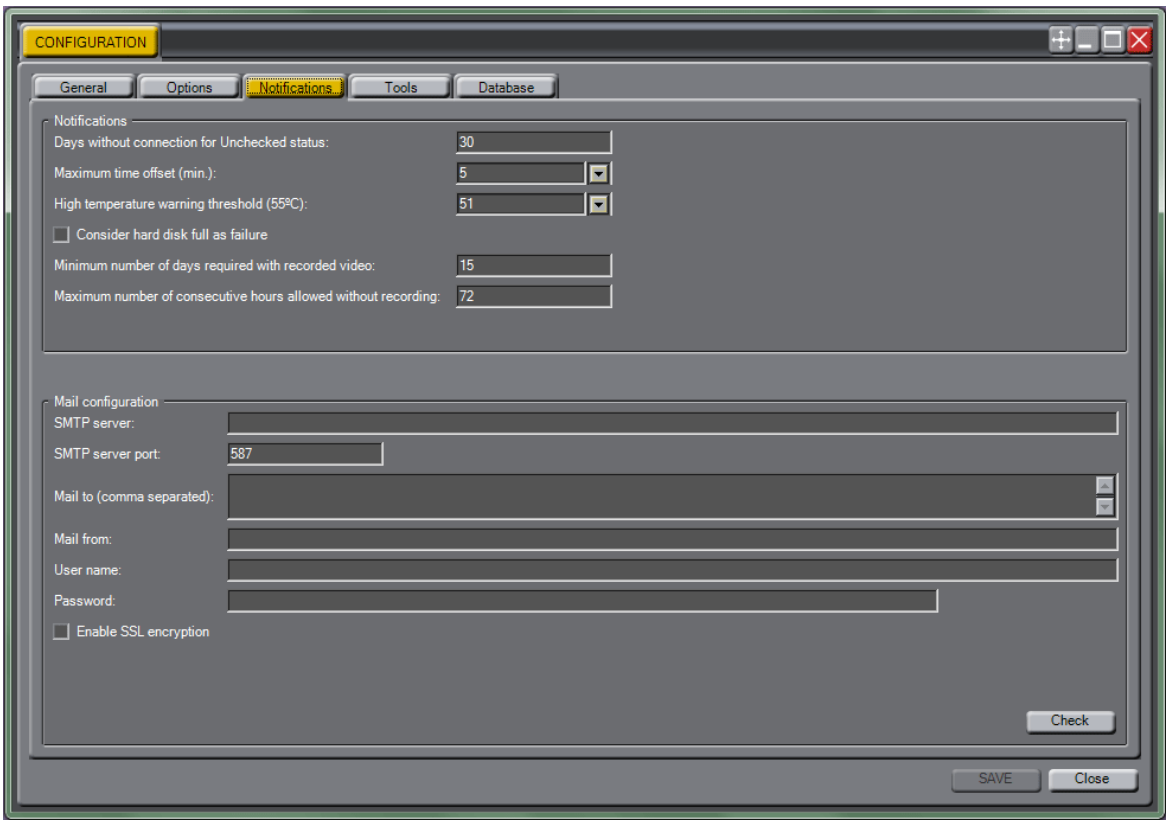


Fig. 37 – Notifications in configuration screen

Notifications

Days without connection for unchecked status: It sets the days a unit has to pass without connection to change form an OK status to a non checked status.

Maximum time offset (min): It sets the time limit from which a warning of time offset is generated in the unit about the Supervisor VS.

High temperature warning threshold (55ºC): It marks the threshold temperature from which the unit generates a warning.

Consider hard disk full as failure: Includes the hard disk full as a failure for the unit notifications.

Minimum number of days required with recorded video: it defines a limit below which the unit generates an insufficient recording days warning, by default the value is 15 days.

Maximum number of consecutive hours allowed without recording: it sets the hour's limit a unit can be without recording, when the unit exceed generates a warning.

E-mail configuration

SMTP server: SMTP server name.

SMTP server port: mail SMTP server port.

Mail to (comma separated): email recipient addresses.

Mail from: sender mail address.

User name: user name mail account, only if the SSL encryption is enabled.

Password: user password mail account only if the SSL encryption is enabled.

Enable SSL encryption: enable SSL encryption to provide privacy to send information between users.

Note: bear in mind that in case that you have an antivirus installed, you must add the necessary exceptions to send mails from the Supervisor VS, (excludes the SupervisorAPP.exe application from the bulk mail sending protection).

11.4 Tools

Here you can change several parameters that affect the files authenticity, the download and the upgrades management.

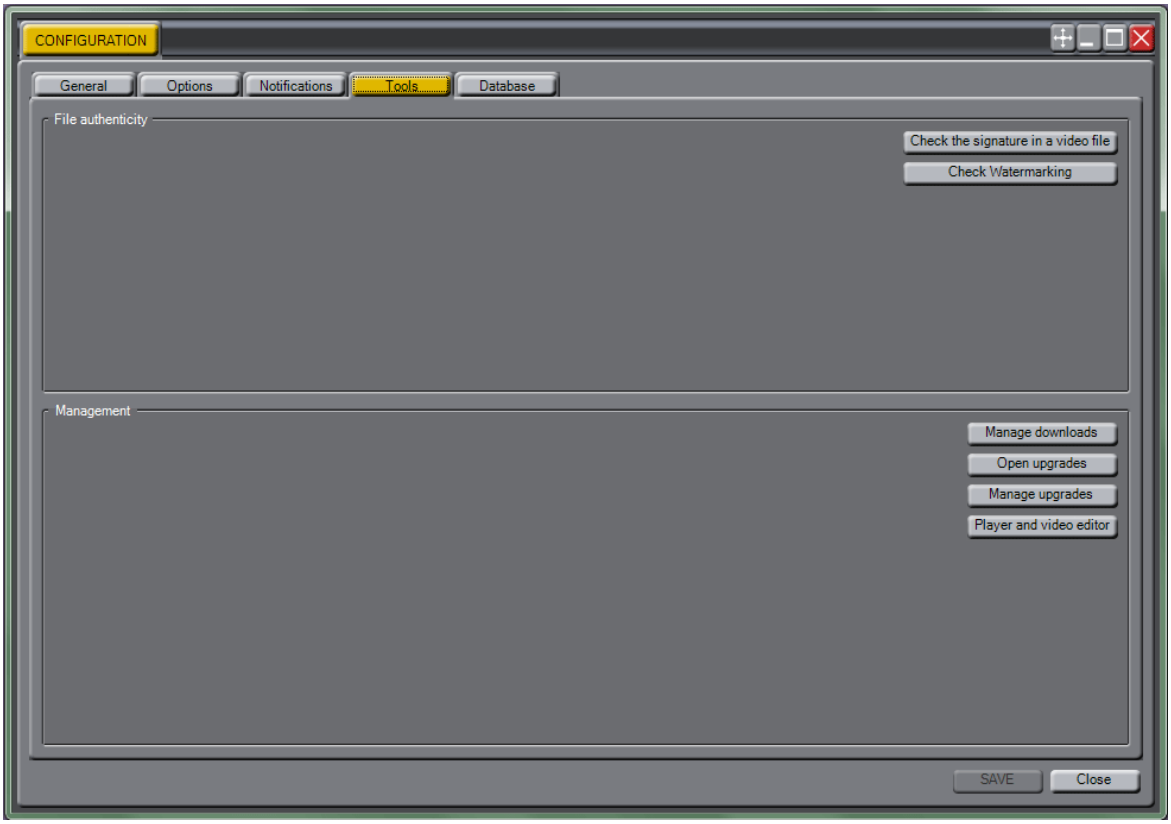


Fig. 38 – Tools in configuration screen

Check Watermarking

Check the signature in a video file: with this option you can check if the video file has been signed by a Supervisor VS, if so it will show a message with the Supervisor VS serial number which has signed the video.

Check watermarking: From this button you can check if a watermarked image is identically preserved or it has been changed. For further information please consult the *Appendix 2 Watermark in exported images*.

Management

Manage downloads: from this window you can do several simultaneous downloads and prioritize, pause or delete pending downloads.

Open upgrades: Please consult the *11.6 Open and manage upgrades* chapter.

Manage upgrades: Please consult the *11.6 Open and manage upgrades* chapter.

11.5 Database

In this tab are the eventlog management and the data base advanced management command.

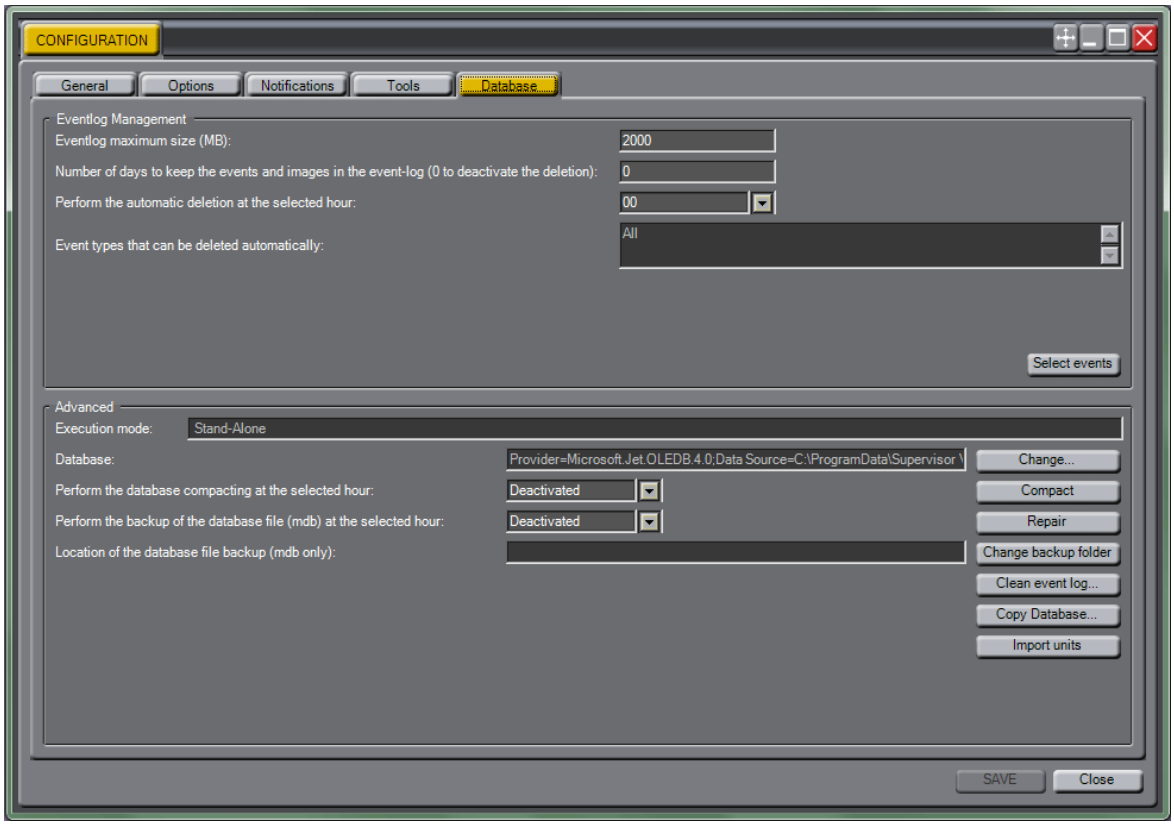


Fig. 39 – Data base in configuration screen

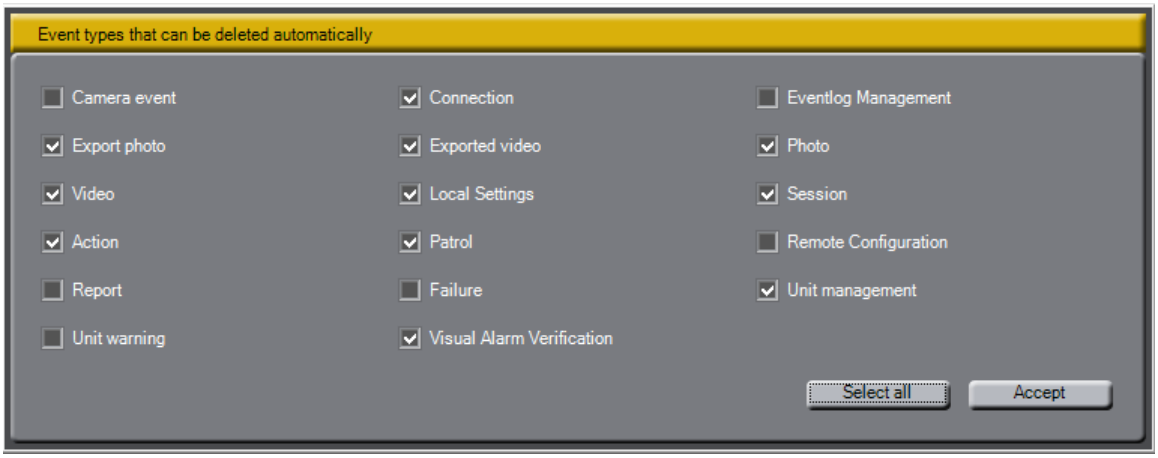
Eventlog Management

Eventlog maximum size (MB): The application will show a warning when the memory allocated to events exceeds the limit reserved. To fix this limit, introduce the size here in megabytes (by default it's 2GB).

Number of days to keep the events and images in the event-log (0 to deactivate the deletion): This option allows you to schedule an automatic eventlog deletion, to deactivate it leave it in 0.

Perform the automatic deletion at the selected hour: schedule an hour to execute the automatic deletion.

Event types that can be deleted automatically: by clicking in the Select Events button it will open a window where you can select which events can be deleted. In any case the events marked as protect against deletion will be deleted.



Advanced

Execution mode: The option by default is the **Stand-Alone** mode. In this case the complete application runs in a unique PC and the database is not shared with other workstations.

If you are interested in the use of multiple Supervisor-Client workstations connected simultaneously by network to a shared database that is managed by a Supervisor-Server, please consult the details in the technical note “Installation of multiple network Supervisors”.

Data base / Change: The data base is an .mdb file that contains the remote unit’s information. This file is placed by default in Windows XP:

C:\Documents and Settings\All Users\Program data\Supervisor VS\Supervisor VS.mdb

And in Windows 7: C:\ProgramData\Supervisor VS\Supervisor VS.mdb

You can select any other database of the same type showing the route where is placed, even on a different computer.

Note: In the window of change, only the data base location should be changed.

Perform the database compacting at the selected hour: it compacts the data base at the selected hour, by default is deactivated.

Compact: This option removes all the blank spaces that occupy useless space in the data base.

Perform the backup of the database file (mdb) at the selected hour: it makes a backup of the mdb file at the selected hour, by default is deactivated.

Repair: The option Repair fixes all the possible mistakes that the records may have, when writing or deleting transactions.

Location of the database file backup (mdb only): location of the database file.

Change backup folder: change the location of the directory where the backup is stored.

Clear event log: through this option the cleaning of the event log is managed manually.

In this window is displayed the number of events, the database current size, the automatic backup file current size and the free disk size.

This file is generated each time there is a database compaction to provide a recovery point in case that it has not been realized correctly. The days with events appear in red and the day until we want to delete the information in yellow.

There are three options:

- Selective eventlog deletion: depending on the date, mark in the calendar the day until you want to delete the information and click in the *Delete events* button.
- Delete compaction backup: it deletes the backup file that is created each time you perform a database compaction.
- Delete ALL of the eventlog: it deletes all the events.

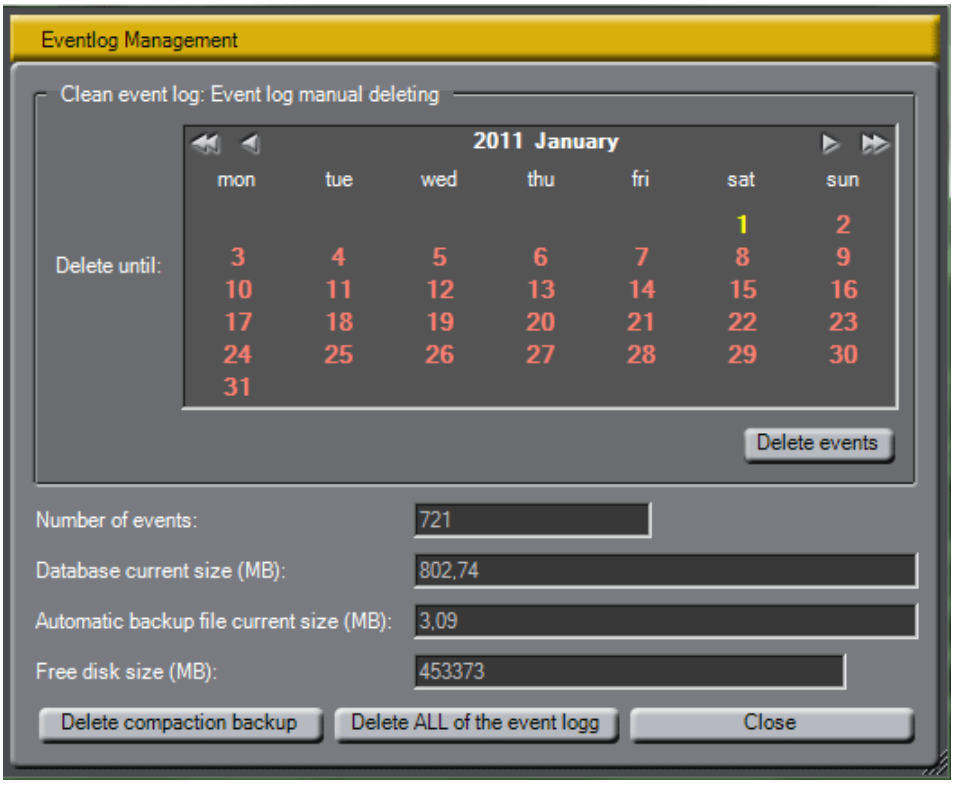


Fig. 40 – Eventlog management

Note: The events marked as “protected against deletion” will not be deleted in any case.

Copy database: It allows you to perform a database backup in a different location.

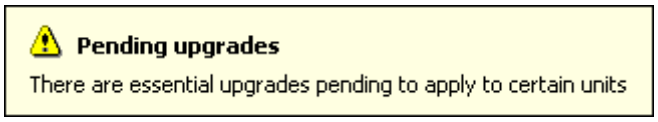
Import units: this option offers the possibility to import units from other Supervisor VS data base.

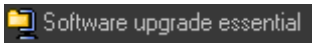
11.6 Open and manage upgrades

The Supervisor VS manage the remote upgrades; from the Units window you can examine the pending upgrades and its unit application, by clicking in the icon on the status bar and from the tab *Tools / Management* in the *Configuration* window.

With the unit filters as *Units by update* and *Units by version*, you can know if there is a new version for the units and if it's advisable.

When there are significant pending upgrades, there will appear in the status bar when the application starts, and in the connection graphic status.





Open upgrades

The Supervisor checks automatically in Internet if there are new upgrades available for the units. The user can decide whether download them and whether send it to the remote units. If the Supervisor doesn't have an Internet connection it may read the update package from an external drive, provided by the manufacturer support department.

The upgrades download can be managed both from the status bar through the icon and from the configuration window in the tab *Tools / Management / Open upgrades*. With the *Open upgrades* button you can access to the upgrade management window, where all the units that can be upgraded are gathered together. The upgrade files are downloaded from internet or from a disk.

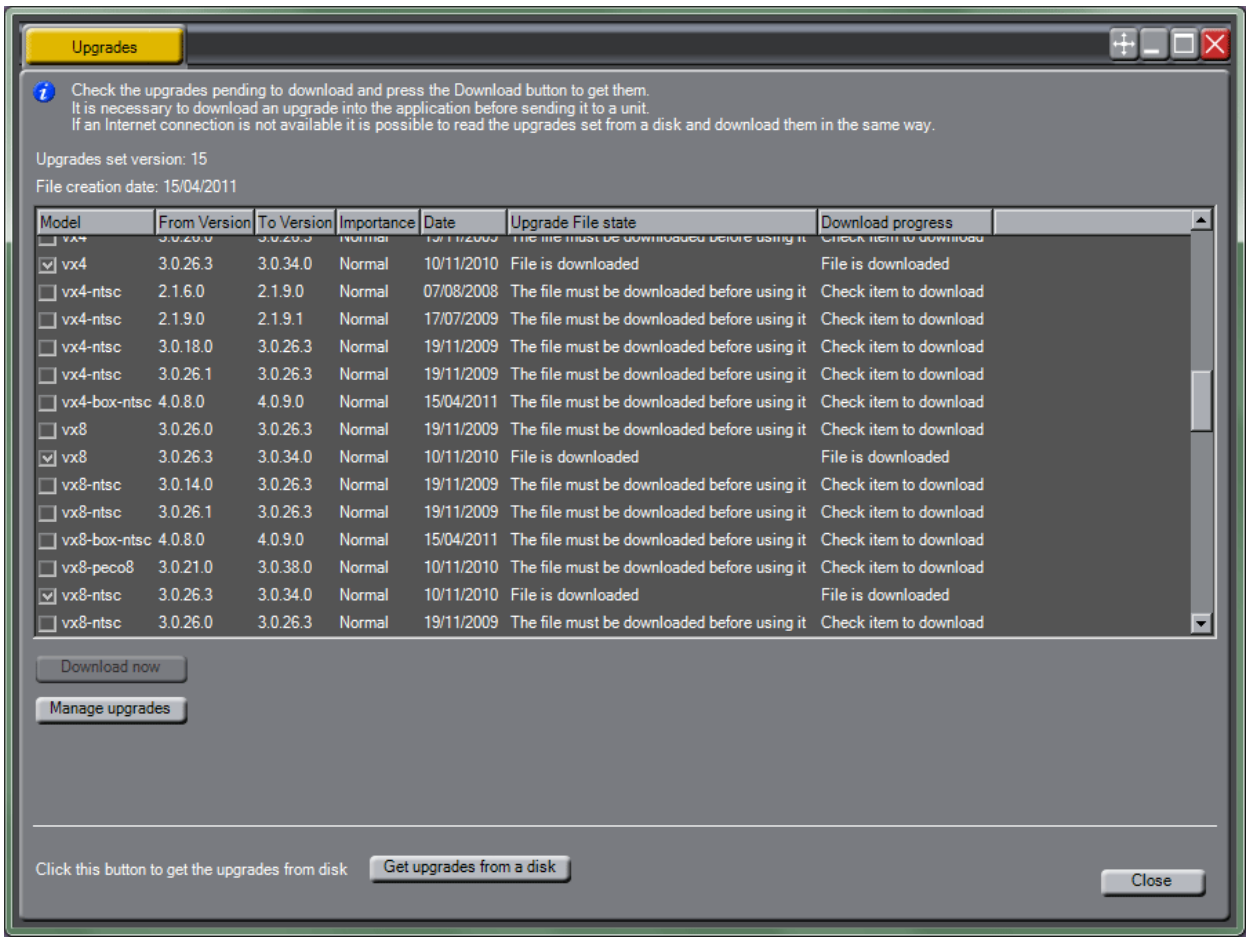

Upgrades
Check the upgrades pending to download and press the Download button to get them.
It is necessary to download an upgrade into the application before sending it to a unit.
If an Internet connection is not available it is possible to read the upgrades set from a disk and download them in the same way.
Upgrades set version: 15
File creation date: 15/04/2011
Model | From Version | To Version | Importance | Date | Upgrade File state | Download progress
vx4 | 3.0.26.3 | 3.0.34.0 | Normal | 10/11/2010 | File is downloaded | File is downloaded
vx4-ntsc | 2.1.6.0 | 2.1.9.0 | Normal | 07/08/2008 | The file must be downloaded before using it | Check item to download
vx4-ntsc | 2.1.9.0 | 2.1.9.1 | Normal | 17/07/2009 | The file must be downloaded before using it | Check item to download
vx4-ntsc | 3.0.18.0 | 3.0.26.3 | Normal | 19/11/2009 | The file must be downloaded before using it | Check item to download
vx4-ntsc | 3.0.26.1 | 3.0.26.3 | Normal | 19/11/2009 | The file must be downloaded before using it | Check item to download
vx4-box-ntsc | 4.0.8.0 | 4.0.9.0 | Normal | 15/04/2011 | The file must be downloaded before using it | Check item to download
vx8 | 3.0.26.0 | 3.0.26.3 | Normal | 19/11/2009 | The file must be downloaded before using it | Check item to download
vx8 | 3.0.26.3 | 3.0.34.0 | Normal | 10/11/2010 | File is downloaded | File is downloaded
vx8-ntsc | 3.0.14.0 | 3.0.26.3 | Normal | 19/11/2009 | The file must be downloaded before using it | Check item to download
vx8-ntsc | 3.0.26.1 | 3.0.26.3 | Normal | 19/11/2009 | The file must be downloaded before using it | Check item to download
vx8-box-ntsc | 4.0.8.0 | 4.0.9.0 | Normal | 15/04/2011 | The file must be downloaded before using it | Check item to download
vx8-peco8 | 3.0.21.0 | 3.0.38.0 | Normal | 10/11/2010 | The file must be downloaded before using it | Check item to download
vx8-ntsc | 3.0.26.3 | 3.0.34.0 | Normal | 10/11/2010 | File is downloaded | File is downloaded
vx8-ntsc | 3.0.26.0 | 3.0.26.3 | Normal | 19/11/2009 | The file must be downloaded before using it | Check item to download
Download now
Manage upgrades
Click this button to get the upgrades from disk
Get upgrades from a disk
Close

Fig. 41 – Upgrades window

Manage upgrades

Once you have downloaded the necessary upgrades, their implementation is managed from other window where it possible to manage the ongoing and pending upgrades, set priorities and upgrade simultaneously up to three units.

This window is available from the *Manage upgrades* button in the *Upgrades* window and from the *Tools* tab in the *Configuration window*.

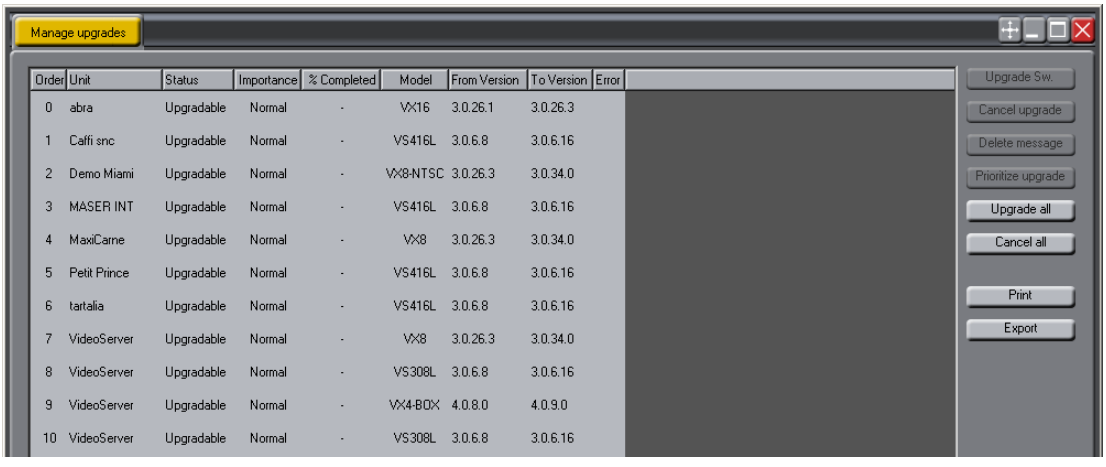

Manage upgrades
Order | Unit | Status | Importance | % Completed | Model | From Version | To Version | Error
0 abra Upgradable Normal - VX16 3.0.26.1 3.0.26.3
1 Caffi snc Upgradable Normal - VS416L 3.0.6.8 3.0.6.16
2 Demo Miami Upgradable Normal - VX8-NTSC 3.0.26.3 3.0.34.0
3 MASER INT Upgradable Normal - VS416L 3.0.6.8 3.0.6.16
4 MaxiCarne Upgradable Normal - VX8 3.0.26.3 3.0.34.0
5 Petit Prince Upgradable Normal - VS416L 3.0.6.8 3.0.6.16
6 tartalia Upgradable Normal - VS416L 3.0.6.8 3.0.6.16
7 VideoServer Upgradable Normal - VX8 3.0.26.3 3.0.34.0
8 VideoServer Upgradable Normal - VS308L 3.0.6.8 3.0.6.16
9 VideoServer Upgradable Normal - VX4-BOX 4.0.8.0 4.0.9.0
10 VideoServer Upgradable Normal - VS308L 3.0.6.8 3.0.6.16
Upgrade Sw.
Cancel upgrade
Delete message
Prioritize upgrade
Upgrade all
Cancel all
Print
Export

Fig. 42 – Manage upgrades window

Inside the Units window, in the connection section there is a new button to download from Internet the upgrade when you don't have the upgrade file or to upgrade the unit when you already have it.

11.7 Troubleshooting

There are two basic problems due to the application cannot boot. There are the following:

It cannot found the database

If the Supervisor doesn't found the database in the configured place it cannot start. The database cannot be available for multiple reasons: there isn't access to the unit or the directory where is placed, is being deleted or moved accidentally, etc.

To resolve it there is available an utility in C:\Program Files\Supervisor VS**RestoreDefaultDatabase.bat**

This utility configures the database location in the directory by default in Windows XP C:\Documents and settings\All Users\Program Data\Supervisor VS\Supervisor VS.mdb and in Windows 7 in: C:\ProgramData\Supervisor VS. It generates a new empty database to boot the Supervisor. Once it has been started you can return to configure the data base where it corresponds.

It cannot found the server

If a Supervisor is configured in client mode and it doesn't found the server, it cannot boot. The server can be inaccessible because is badly define, the supervisor has not access to the server, the server is no operative, etc.

To solve these problems there is a utility in:

C:\Program Files\Supervisor VS**ServerSelector.exe**

IT allows to modify the server configuration, or to change the Supervisor from client mode to Stand-alone mode. Once the change has been made the supervisor can be used again. For further information please consult the technical note Installation of multiple Supervisor VS on a network.

Appendix 1 Visual Alarm Verification (VAV)

The VAV is an alarm with enclosed images that the remote unit sends to the Supervisor automatically when in the remote VS or VX unit an alarm configured for this purpose is activated. A VAV event has 4 associated images and all the information relative to the alarm.

The same unit can send its VAV to two different Supervisors (to a local Supervisor and to a reception alarm centre, for example..) Consider that if there are multiple network workstations you only have to send the VAV to the one configured as Server Mode Supervisor, the others workstations – Client Mode Supervisors – will receive it also.

Alarm reception

Since an alarm is received until is close and is stored in the Supervisor database, these are the steps to be continued:

1. Notification

The Supervisor can receive VAVs though is connected to other unit or group at this moment.

When a VAV is received the status bar change to red colour to show that there are pending alarms and the warning sound is active – unless it's inhibited – in order to warn that a new VAV has entered.

The sound will stop when you click in the buzzer icon. The status bar remains in red colour. If a new VAV is received the buzzer will be activated again to warn that a new VAV has entered, although the previous VAV has not been recognized.

You can inhibit the warning sound for future alarms clicking again in the icon once it has been silenced. The buzzer icon will appear with a forbidden signal that shows its status. It can be operative by clicking on the icon again.

2. Alarm verification

To access to the last received alarm click in the button "direct access to the last VAV received" you will see the list of unattended VAV. Appearing in the screen the most recent.

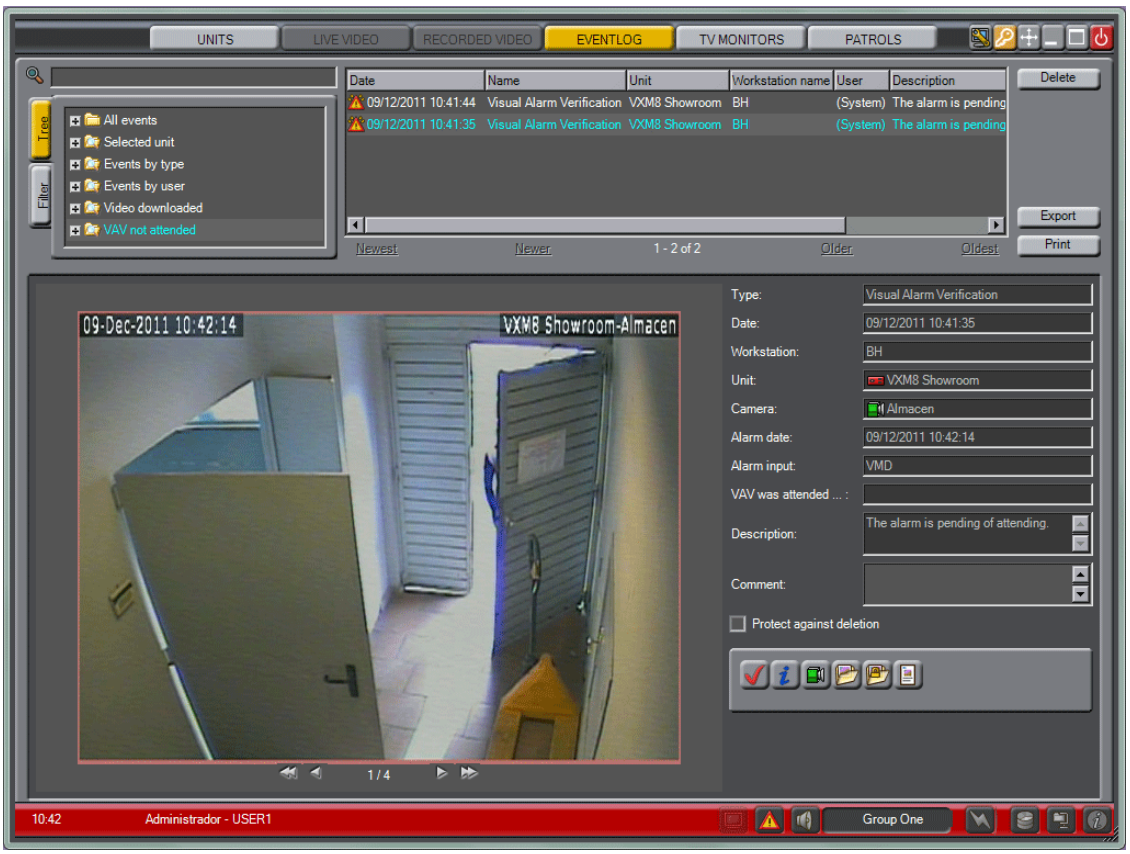


Fig. 43 – VAV Screen

In the event information is included all the concerning data: date and time, alarm date, unit, alarm input and associated camera.

To check the alarm there are some possibilities:

- To display the received images use the displacement buttons.
- To access to the unit information that has generated the VAV: address, client.... (the description field or the remark field can be used to give contact information or action standards in case of alarm, for example..)
- To display the video of the camera in alarm. The Supervisor connects to the unit and shows automatically the video of the camera in alarm.

Recognition and alarm closing

Any time, the user can add a remark to the alarm and decide to protect it against deletion.

The user in charge of the alarm verification will be the one that, once it has been verified, recognize the alarm by clicking in the *Attended VAV* button, the simple fact of access to the VAV event doesn't suppose it recognition.

Once the VAV has been recognized it disappears from the non attended alarm list, and if there are some none attended alarms it appears the most recent one on the screen. The date and time of the alarm recognition and the user who made it are stored in the event information.

3. Alarm Eventlog

The VAV is registered in the eventlog as a type of event “visual alarm verification” and it can be accessed any time.

With the control buttons of the VAV event you can export a JPG image, export a watermarked image or create a report with any of the 4 images of the VAV event.

4. Behaviour of the operator when a VAV is received .Options

Each operator can decide how to behave when a VAV is received. In the Local Settings screen in the Options section is possible to configure one of the three following options in the drop-down menu “In the reception of an alarm”.

- **Only notify the alarm in the status bar (default):** The operator is who decide in each case how to operate when a VAV is received.
- **Show the last alarm event:** When a new VAV is received the Supervisor displays automatically the most recent VAV. If the user is in a different screen, it changes automatically to the Eventlog, but if is connected to a different unit it doesn’t cut the connection.
- **Connect to the alarm unit and show the alarm camera:** When a VAV is received the Supervisor connects automatically to the unit that has sent the VAV and displays the live video of the camera associated to the alarm. If the user was connected previously to another unit, is disconnected to connect to the new one.
- **Attend alarms (VAV) automatically**: It recognizes automatically the incoming VAV.

Automatic recording of the incoming live video: If you have decided to connect automatically to the alarm unit and show the associated video of a VAV, it can be interesting if the incoming video is recorded automatically in the supervisor. In this case you only have to select the option “record incoming live video automatically” in the *Options* section of the *Local Settings* screen.

Please bear in mind that this option records automatically all the incoming live video that is being showed in the Supervisor, coming from a VAV or not.

5. Automatic display of the alarm video in a spot monitor

It’s possible to display automatically in an external monitor, the video of the last camera in alarm. To use this function is required to have a PAL or VGA monitor connected to the IP network through a VS-TV unit (please consult the chapter TV Monitors).

This option is independent of the definition of the operator behaviour when a VAV is received.

To configure an external monitor as spot monitor you have to go to the TV Monitors screen, and select the button Monitors Management. Choose the monitor you wanted to use and edit its configuration: select the option “Show automatically video of incoming alarms”.

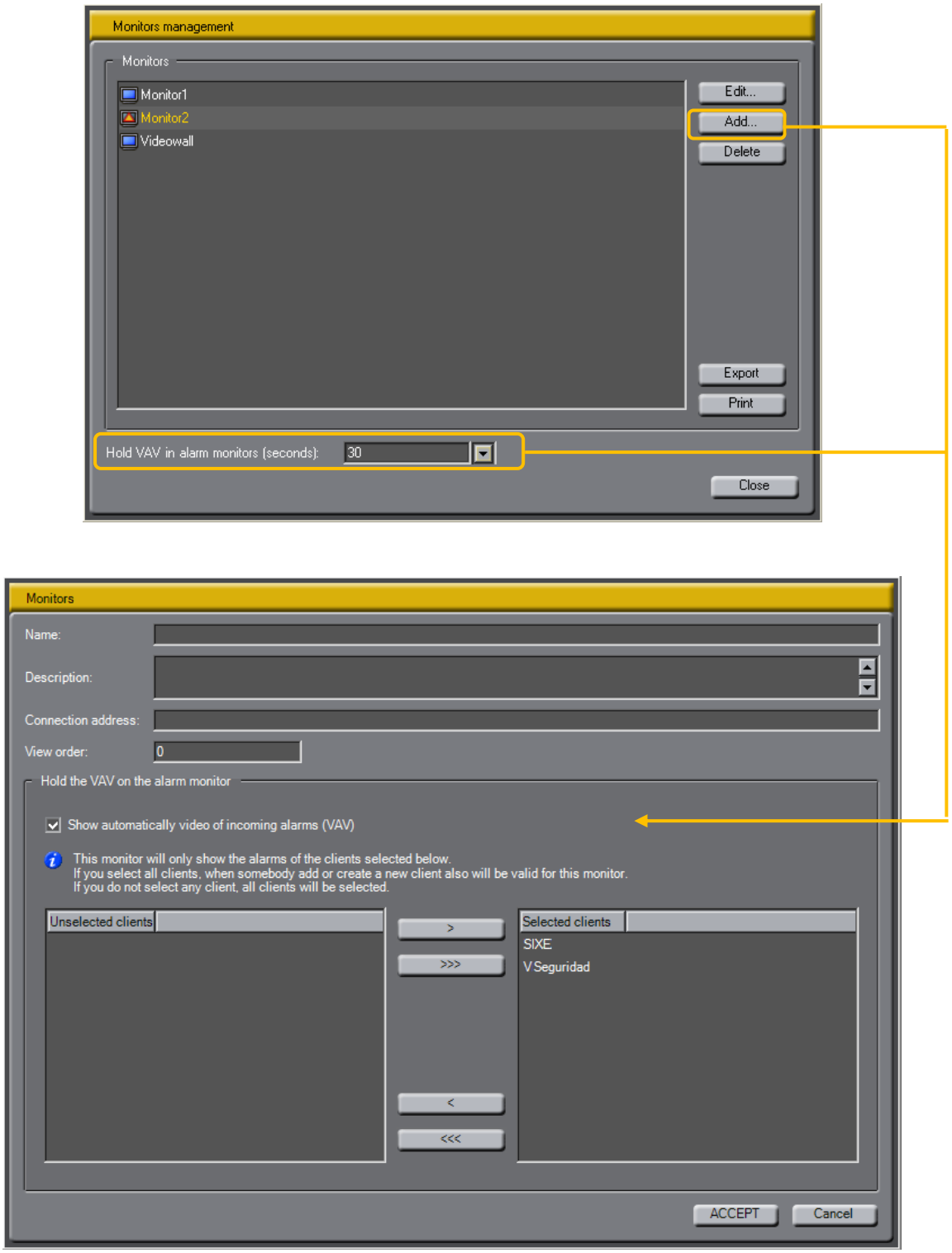


Fig. 44 – Spot monitor configuration

You can assign clients to each alarm monitor so that only display selected customer alarms.

By default all the clients are selected for an alarm monitor, if you add a new client it will be added to the list.

The icon of the monitor selected as spot monitor is marked out with an alarm triangle. The time that the alarm remains in the monitor until it comes back to the previous monitor view it's configured in the monitor management window.

In the status bar there is an icon displaying the alarm monitor status, if there is a dwell time configured, the icon is displayed as until the defined time passes, if you click in the icon the alarm will remain in the monitor until you click it again. Each alarm restarts the VAV dwell time in the monitor.

If the dwell time is unlimited, the monitor displays the alarm permanently until you click in this icon and the monitor comes back to the previous defined view.

Change the warning sound of a new VAV

If you want to change the warning sound of a VAV you can replace the sound file vav.wav in the application directory by other of the same type.

C:\Program Files\Supervisor VS\vav.wav

The sound is repeated indefinitely while the warning advice last, so the length of the file doesn't affects the working.

VAV configuration

Configure the VAV in the Supervisor

You have to define a TCP port to listen to the incoming VAV. By default the application use the 6968 port. It can be changed in the *VAV port* box inside the *Option* section of the Local Settings screen. If you changed it, bear in mind that this data is used for the firewall, router and VS unit configuration.

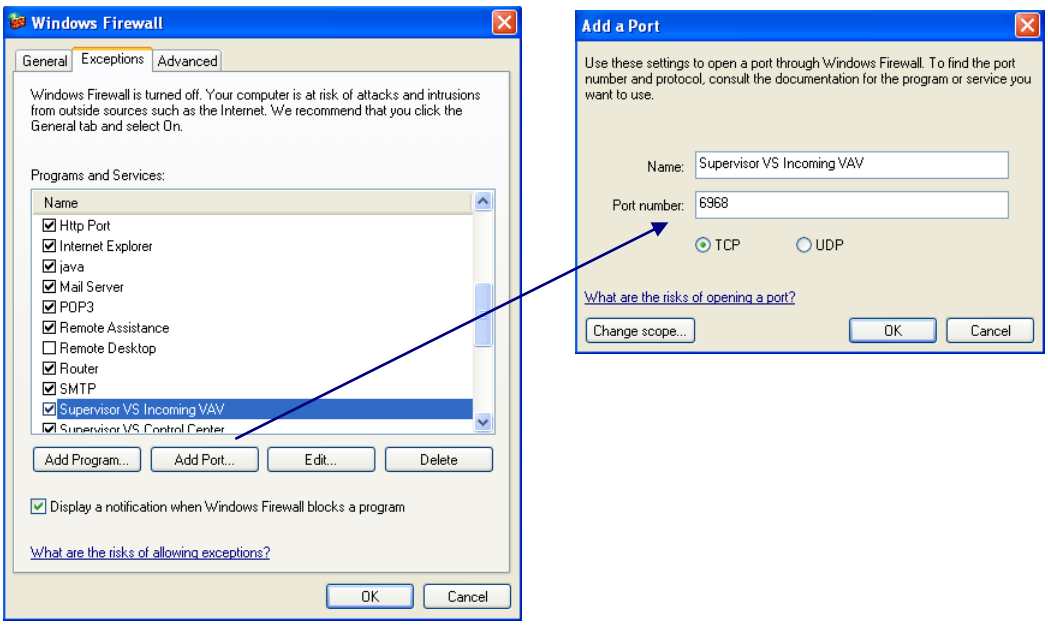
Configure the VAV in the Windows firewall

To use the access port of the VAV defined in the Supervisor, it is necessary to declare it in the windows firewall. In case of multiple network supervisors you only have to define it in the supervisor that works in server mode.

To access to the windows firewall configuration go to Control Panel, and select the Exceptions tap.

To add the VAV port, click in the button *Add Port* and declare it:

You can use any name for the port, but we recommend you to identify it with an explicit name (Supervisor VS incoming VAV for example) to make easy its future management. Enter the Supervisor configured port number and select the TCP type.



In the exception tap you should check that the services that correspond to the Supervisor VS are enabled and declared: “Supervisor VS Control Center” that is created automatically when the application is used for the first time and the “Supervisor VS incoming VAV” that it has been just created.

Configure the VAV in the Supervisor router

If the supervisor connects to the VS units through Internet you must open in the router the TCP port 6968 – or the port that you had defined in the Supervisor – and re-address it to the Supervisor PC.

Configure the VAV in the VS units

You must define the events as an alarm and mark off each of them with the option “Transmit Alarm”. This can be done as for the motion detection (VMD) as for the alarm inputs.

In the VS network configuration there have to be defined the IP address of the Supervisor that is receiving the VAV (can be two) and the VAV listen port (please remember that the port configured by default is the 6968)

Appendix 2 Watermark in exported images

1. Export images with watermarking

The wartermark allows to export images outside of the Supervisor with the warranty that if there are modified later the change can be detected.

The watermarked images can be exported from the photos of the photo events, VAV or report events. There is for this purpose a button to export images with watermarking in the event buttons panel.

The application opens a new window to introduce the name of the exported BMP file and where is stored.

2. Watermarking verification

The watermarking verification can be done it from any Supervisor, although if is not the same that was used to generate the image.

To check the watermarking of an image file (BMP type) use the button *"Check Watermarking"* placed in the O*ptions* section of the "*Local Settings"* screen. You should indicate in an explorer window where is the image file you want to check. This operation can only be carried out by an administrator user.

If the result of the verification is correct, a message is get it informing that the image has not been changed.

If the result of the verification is not in agreement, it appears a window with an alteration report that includes the information of the checked image and over the image, the altered image zones marked in red. This report of the alteration can be sent to the printer with the "*Print"* button.

Next is showed an example of an original image (left) exported with watermarking, the same image altered to eliminate the object that the suspect has in his right hand and the result of the watermarking verification.

O**riginal image**

Altered image

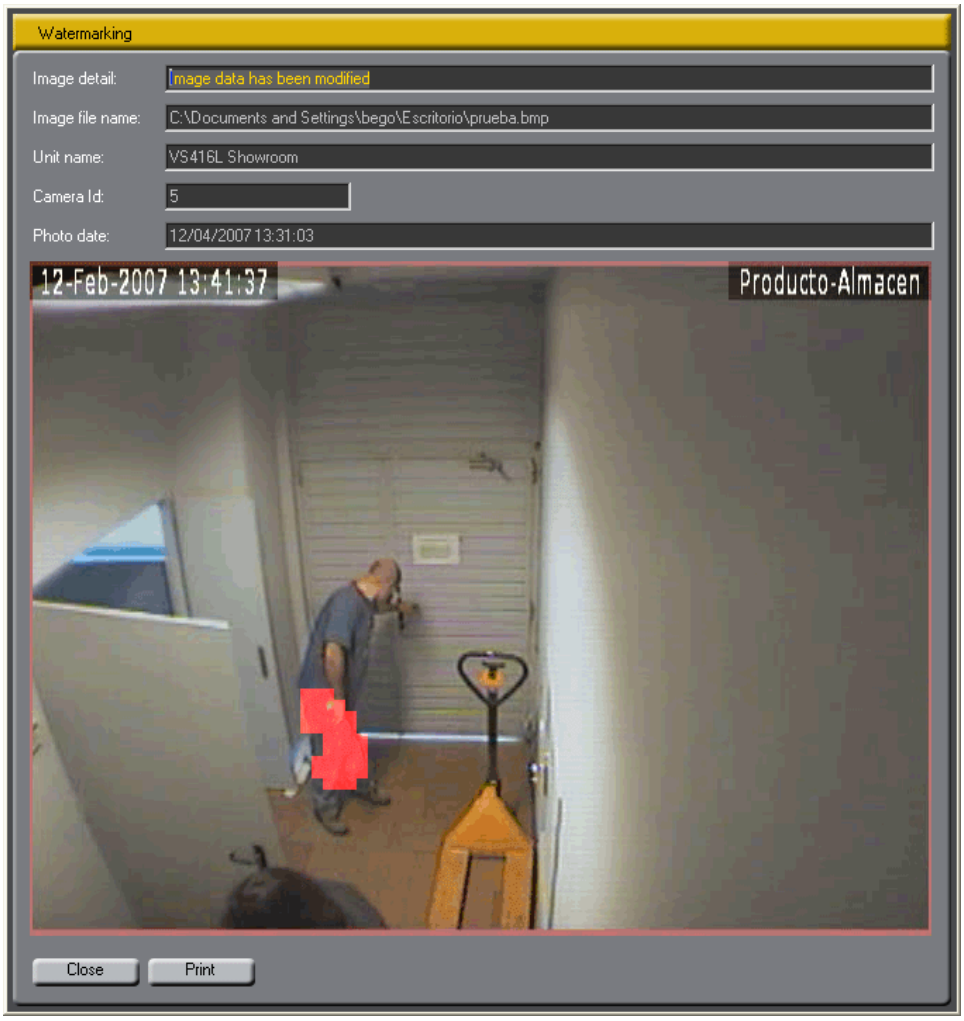


Fig. 45 – Report of watermarking alteration

Appendix 3: Templates and configuration sending

The Supervisor VS makes easier the adding of repaired and new units and offers the possibility of create, manage and send both configuration templates and previous unit configurations. All this options are available from the configuration tab in the Unit window.

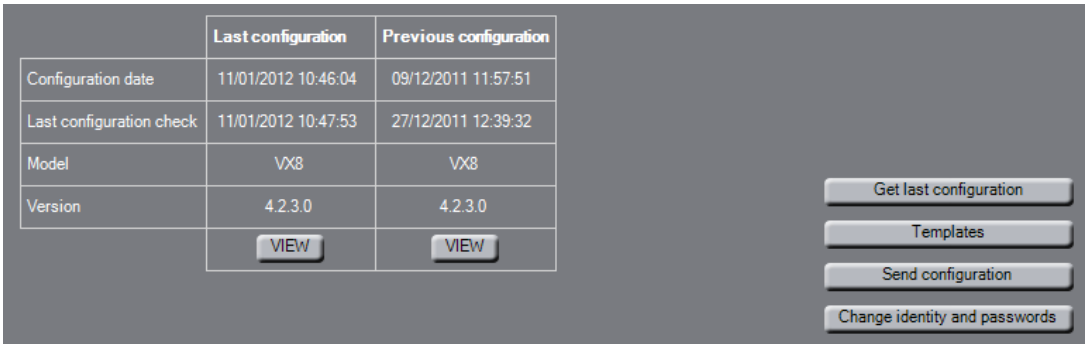


Fig. 46 – Template and configuration management

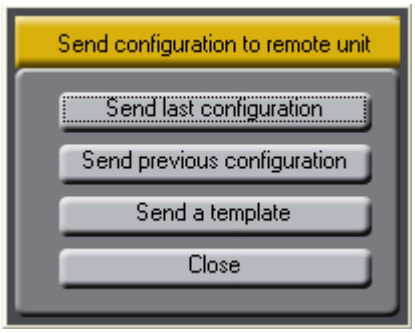
Options

Get last configuration: it obtains the last configuration available in the unit, storing it under the title *Last Configuration*, if there is a previous one is stored as *Previous Configuration*.

Templates: a new window appears with the following options.

- Create template using last configuration: it creates a template with the last unit configuration stored; each template is given a name.
- Manage templates: It displays a new window where a list with all the available templates and its data, name, model, version and date are shown, besides the edit button to change the templates name and the delete button.

Send configuration: when you click in this button a new window appears with the following options.



- Send last configuration: it show a new window with the date, model and version of the configuration to send, it ask for confirmation.
- Send previous configuration: it show a new window with the date, model and version of the configuration to send, it ask for confirmation.
- Send a template: it appears a new window with a list of all the templates available, the list includes the name, date, model and template version, and it is sorted from high to low compatibility with the selected unit.

Change identity and passwords: It offers the possibility to change the identity and passwords in factory settings units (new or repaired).

Considerations to take into account

To use these options you must bear in mind the following considerations:

- This functionality is only compatible with version 3.0 or higher units.
- The option Change identity and passwords is compatible only for units with version 4.0 or higher.
- It is only available for the administrator Supervisor user.
- You can save the configuration of units that are going to be repaired or replaced, to send it when there are installed again, providing the configuration is compatible.
- The templates are generated from existing configurations. There can be applied to units with the same model and with the same or later version.
- A unit can receive either a configuration or a template, but the access to the unit must be administrator level.
- The configurations and templates can be visualized from the Supervisor but there cannot be edited. To edit a configuration you have to connect to the unit.
- There are certain data that the unit has write-protected, there are included in the configurations and templates but there cannot be modified, there are the following:
    - Identification data: unit name, address, city, zip code, region and country.
    - Connection basic data: IP address, gateway, video port and HTTP port.
    - Passwords: Of all users, administrator, supervisor and operator.

Change identity and passwords

This feature allows you to change identification data and passwords for units with factory settings, either new or repaired. These are the values that a template or configuration cannot change.

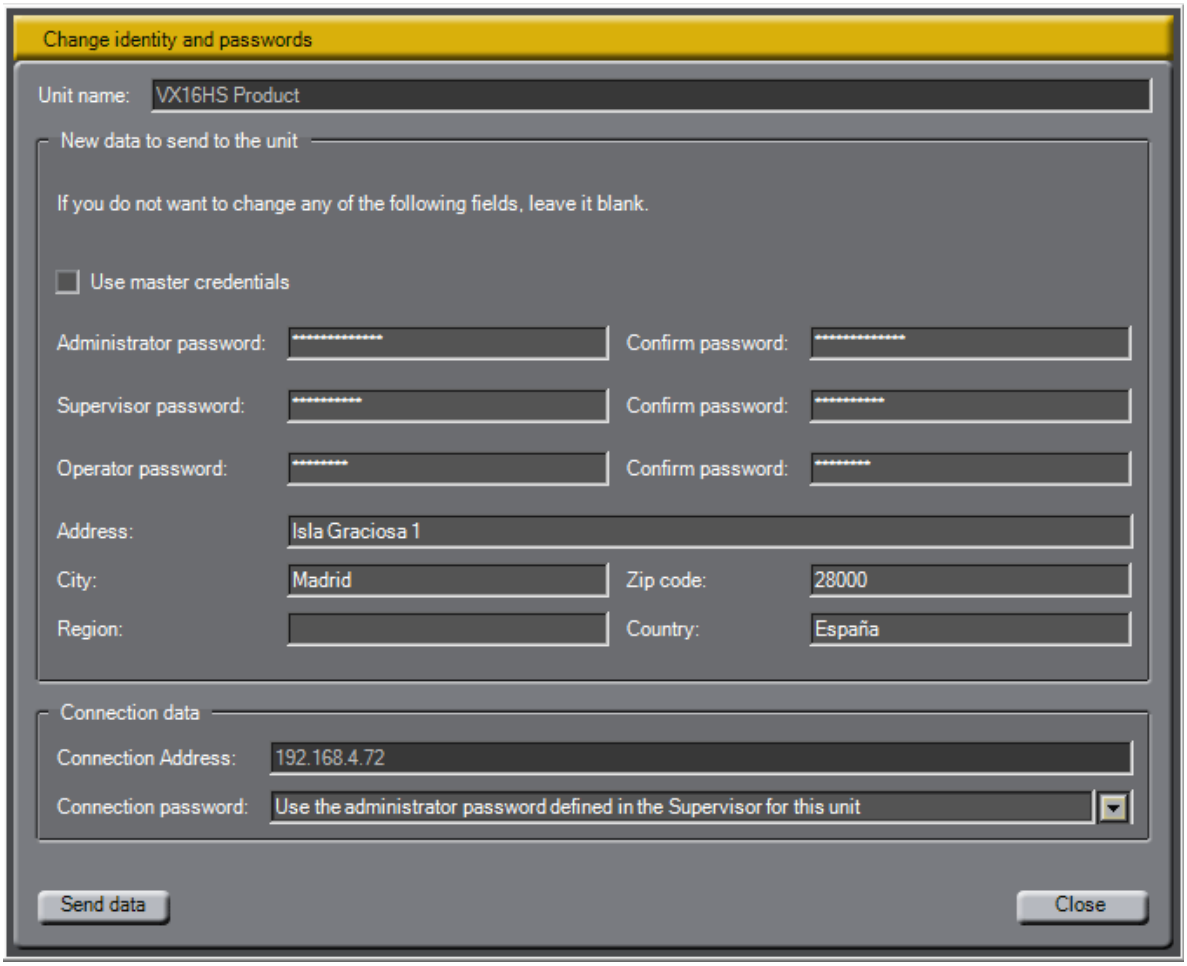
The first step is to add the unit in the Supervisor data base with a name and an IP address or select it in case that it exits. Click in the *Change identity and passwords button*, then select and modify the data you want to change in the *New data to sent to the unit* section:

- Use master credentials
- Change the administrator/supervisor/operator user passwords.
- Change the address data.

Choose in the Connection data section the option to change the connection password, this is the password used to connect and send the data to the unit:

- Enter other connection password
- Use the administrator default password
- Use the administrator password defined in the supervisor for this unit.

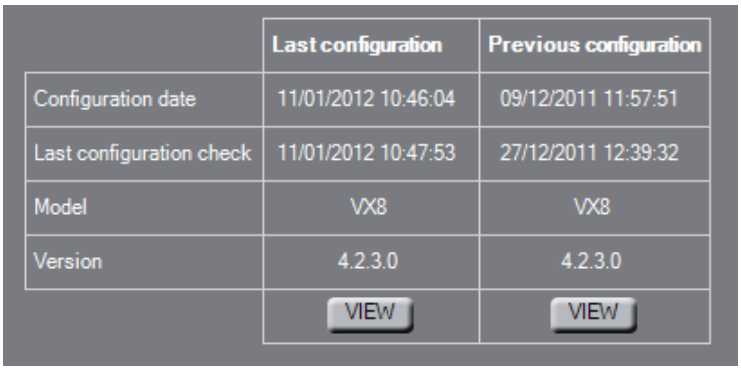
Once completed, click in the Send data button, the unit is ready to receive a template or a previous configuration.



Configurations and templates

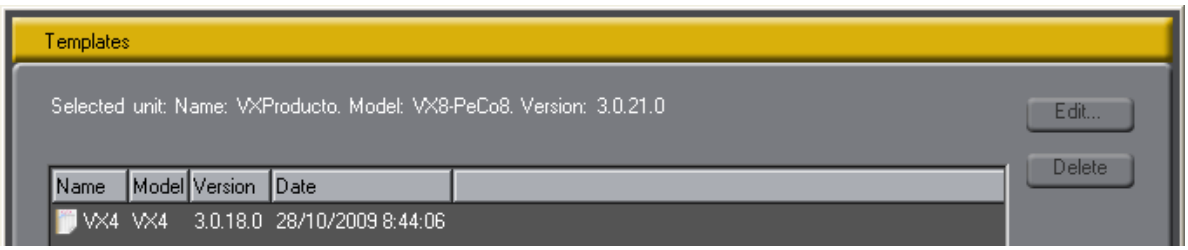
- The supervisor can store at least two configurations from each unit; these configurations are upgraded manually or through a programmed patrol. To obtain manually the last configuration you have to select the configuration tab and click in the *Get last configuration* button.

  The supervisor checks if it has a previous configuration and, if it has been modified it is stored as *Previous configuration*. You can see the stored configuration clicking in the *See* button; it opens a new window where it appears all the data only for reference.



	Last configuration	Previous configuration
Configuration date	11/01/2012 10:46:04	09/12/2011 11:57:51
Last configuration check	11/01/2012 10:47:53	27/12/2011 12:39:32
Model	VX8	VX8
Version	4.2.3.0	4.2.3.0
	VIEW	VIEW

- The templates are created from units stored configuration and can be applied to several units not only the one that has create it. When you create a template, you have to assign it a name and it is displayed in a list along with the model, unit version and creation date.



Configuration and templates sending

When the supervisor sends a configuration to a unit, first it checks that it is the same model and that the unit version is equal or higher to the configuration's one. If you send a configuration from a different version the supervisor displays a warning message advising that the unit could reject it for not being compatible.

When the supervisor sends a template the ones with the same model and version appears first, then the ones with previous versions and finally the ones unusable.

You need to have a configuration previously before you send it, if you don't have it you can send a template, these are the steps:

Configurations

1. Select the unit in the data base, if the unit does not have factory settings (it is not a repair, replacement, etc.) click in the *Send configuration* button and select the configuration you want to send.
2. If the unit has factory settings click in the *Configure* button, and change the name and unit password.
3. Click in the *Send configuration* button you can choose between sending the last configuration or the previous one.

Templates

1. Select the unit in the data base, if the unit does not have factory settings (it is not a repair, replacement, etc.) click in the *Send configuration* button and select the template you want to send.
2. If the unit has factory settings click in the *Configure* button, and change the name and unit password.
3. Click in the Send configuration button and select a template.
4. Select the template you want it to send and press the button *Select template*.

Appendix 4: External video player

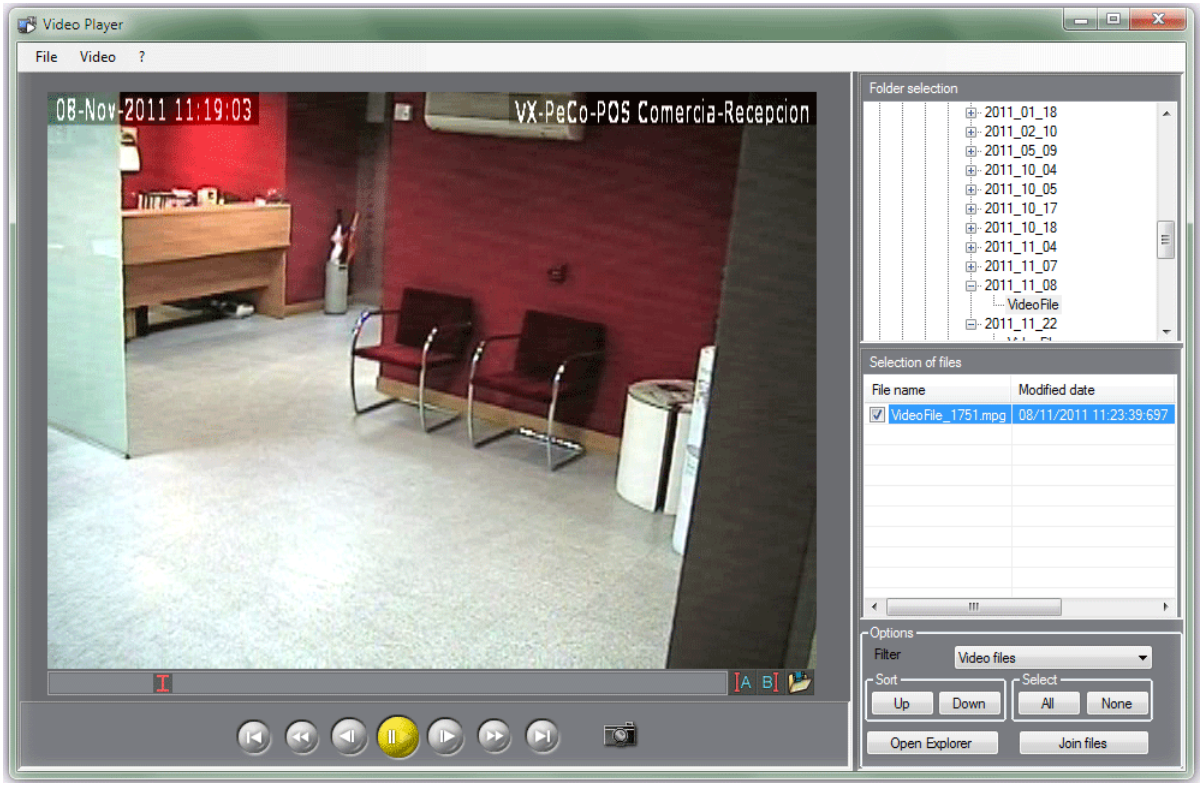
The Supervisor VS has an external video player named “Video Player”, you can find this application in the Configuration screen Tools/Management section, in the video events stored in the Eventlog, and externally is installed in the Supervisor VS group.

The viewer screen consists of a progress bar with the export controls, playback controls and snapshots.

In the right part of the application there are two windows, at the top one you have to select the directory where the video is and in the lower one the files to be played.

By default all the video files are selected, if there is a file that you don’t want to select juts remove the checkbox. The list can be sorted by clicking the column heads.

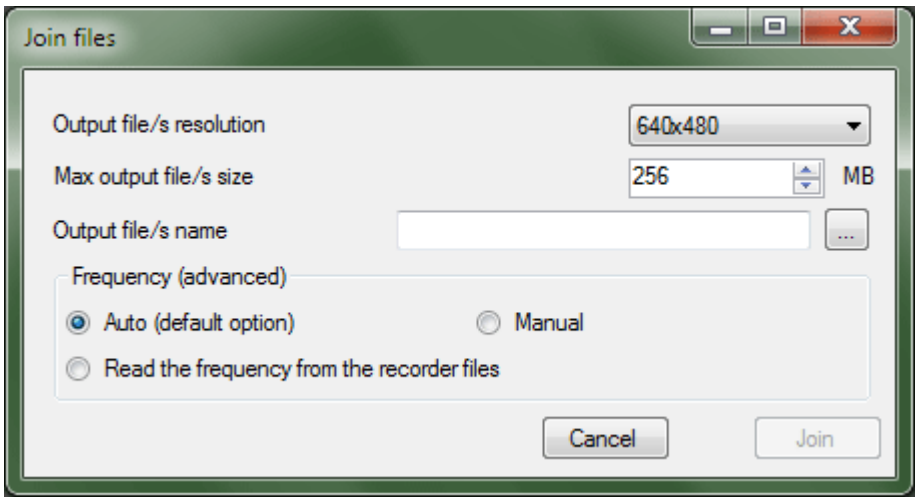
To play a particular file just double clicks on it.



Other option available is the possibility of join files and creates a single file with the selected ones; the output file has 256 Mb at the most and is created in the same directory. You can choose the output resolution between 640x480, 32x240 and 384x288.

To join files you need to know the recording frequency, *Auto* is the options by default; the second option *Read de frequency from the recorder files* is used only when the files are get it directly from the disk.

Last you can set it manually.



The application plays raw files. Besides the playback controls, in the File and Video menus we can find management options for video files.

SUPERVISOR VS

User manual

ENGLISH

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